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THE CHEMICAL MARKET AUTHORITY

June 5, 1961

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Oil, Paint and Drug Reporter

Vol. 179 No. 23 30 Church St., New York 7, N.Y. June 5, 1961

DUTIES INCREASED: Edwin W. Rawlings, named executive vice-president for operations and finance, a position of increased responsibility with General Mills, Minneapolis, Minn. The chemical and specialty products divisions will be under his direction.

Polyethylene in Thick Of a Price Scramble

The polyolefins industry, hoping perhaps for high impact on consumers at this week's exposition of the Society of the Plastics Industry in New York, is in the middle of widespread price-slashing on most grades of high-density polyethylene.

But trade observers both privately and publicly express fears that the reductions are just one more sign of stress-cracking brought on by over-capacity, falling prices and lack of ready markets.

Hercules Power Company started the ball rolling when it cut 0.962 density resin to 32 cents a pound from 35 cents, and its 0.945 density resin from 38 cents to 35 cents.

Grace Makes Sweeping Reductions

Quickly following Hercules' move, polymer chemicals division of W. R. Grace & Co. made sweeping reductions in prices, ranging from 3 cents to 5 cents a pound.

Grace now prices a series of injection and blow-molding resins at 32 cents, and other resins requiring high-stress crack and impact resistance at 35 cents.

The company also cut the price of film-grade resin (now 33½ cents a pound) and on a special high-strength film compound reduced the price from 40 cents to 35 cents.

Grace has cut fire-retardant polyethylene from 48 cents to 43 cents, and wire and cable material has been lowered 3 cents.

Phillips Chemical Company, largest producer of high-density polyethylene, makes the following wary statement: "Prices of Phillips Chemical Company's 'Marlex' high-density 6,000 series polyethylene and 5,000 series ethylene copolymers have been reduced 3 cents a pound following the announcement of price re-

—Continued on page 56

Ammonia Installation To Be Put Up in Norway

Norsk Koksverk, a Norwegian state-owned company, is planning a new ammonia plant with capacity of 50,000 metric tons a year to be added to a coking plant being built at Nord-Rana in northern Norway.

The government has asked Parliament to guarantee a loan of about $8.4 million needed to finance the ammonia plant. If the Parliament consents, construction on the plant will be started this year with

—Continued on page 37

Acetaldehyde Producers in US (Capacity: 1.2 Million Lbs. in '62) Closely Trailed by Europeans

Acetaldehyde capacity in the US is slated to push past the 1.2-billion-pound mark early in 1962 when Celanese Corporation of America puts its acetaldehyde-from-ethylene plant on stream at Bay City, Tex. But European countries aren't far behind the US in actaldehyde output, and threaten to catch up and surpass this country's potential before too long.

Four European nations—West Germany, France, Netherlands and Italy—already have in place production capacity to make 400,000 tons a year. This total, equivalent to 881.6 million pounds, actually exceeds estimated US output for 1959 of 866 million pounds.

It's very difficult to estimate either capacity or output of acetaldehyde. This is because it's unclear how much is used in the manufacture of acetic acid. (Not all acid comes from acetaldehyde, and some acetic anhydride is produced directly from acetaldehyde, while a part also comes from the acid.)

Acetaldehyde: West Germany*

Producer	Capacity
Hoechst, Frankfurt	30,000
Knapsack, Knapsack	80,000
Wacker, Burghausen	30,000
Wacker, Koeln	30,000
Huels, Recklinghausen	80,000
BASF, Ludwigshafen	50,000
Total	300,000

* Metric tons per year. Hoechst uses ethylene; Knapsack uses carbide-acetylene and ethylene; Wacker uses carbide-acetylene at Burghausen and ethylene at Koeln-Huels, and BASF uses acetylene.

Due to the difficulty of tracing the acetyl radical, industry observers here peg US acetaldehyde capacity at somewhere between 1 billion and 1.5 billion pounds.

One observer believes that if every US acetaldehyde producer ran all-out, production would hit the 1.2-billion-pound figure mentioned earlier.

Celanese's 100-million-pound acetyl chemical plant in Bay City, using the

—Continued on page 33

Fertilizer Price Skirmish: Spencer Still Discounting

Spencer Chemical Company is bucking a move to end seasonal discounts on nitrogenous fertilizers.

Following word from Allied Chemical Corporation that it had adopted a no-discount policy and an announcement by W. R. Grace & Co. that urea prices would be advanced $2 to $3 a ton, Spencer last week posted seasonal discounts for urea and nitrogen solutions and adopted a new zoning policy for urea. Zoning has been used in ammonium nitrate marketing for some time.

The new schedule calls for a price of $150 a ton for ammonia-ammonium nitrate solutions and $158 a ton for ammonia-ammonium nitrate-urea solutions, effective May 16, 1962.

But seasonal discounts are being granted, starting with a price of $126 a ton from

—Continued on page 56

IN NEW POST: Gary G. Grant, former project coordinator, moved up to general manager of the industrial division of Lever Brothers Company, New York. He succeeds the late John L. Parry.

Tennessee Copper Doubling SO_2 Capacity

Tennessee Copper Company, a subsidiary of Tennessee Corporation, will go on stream in July with a new sulfur dioxide unit at Copperhill, Tenn. The added facility will bring Tennessee's SO_2 capacity to ninety tons a day, double the firm's previous potential.

Need for the new capacity, trade observers say, stems from the rapid expansion of the southeast paper industry. About two-thirds of the company's SO_2 sales are said to be dependent on demand for wood pulp and paper products.

Tennessee Copper, victim of a fire at its SO_2 plant in September, was quick to recover. The plant was completely destroyed by the blaze, but a reconstructed

—Continued on page 58

Kefauver Date Difficulties Are Holding Up Drug Probe

Sen. Estes Kefauver of Tennessee wants to put his antitrust investigating committee back on the subject of the drug industry, but he's running into difficulty in fixing a starting date.

June 20 has been the date uppermost in the senator's mind for beginning hearings on his drug industry control bill, S 1152, for licensing the industry and licensing its patents. He wants to start the

—Continued on page 39

DuPont and GM: Litigation Bounces Back Into Court

The Supreme Court of the United States hasn't finished work on the duPont-General Motors case yet, despite its decision of a fortnight ago. The case has just bounced back to the court with a request by E. I. duPont de Nemours & Co. to ease the deadline for divestiture so that the court's mandate can be carried out with a minimum of hardship to stockholders.

In a formal petition last week, the giant Wilmington, Del., chemical firm asked the court to waive the ten-year time limitation. This limit had been placed on the company for disposing of its 63 million shares of General Motors Corporation stock, which the court says gives duPont too big an influence in the Detroit, Mich., motor corporation and violates the antitrust law.

Time Was Not the 'Essence'

The brief pointed out that the Department of Justice had not insisted upon a time limit and, in fact, stated during arguments before the court that a ten-year disposal plan was not the "essence" of the government's divestiture proposal.

DuPont asked that the district court be allowed to devise its own timetable for meeting the terms of the Supreme Court's decree.

Under the court's order, duPont is required to submit a plan for disposing of its holdings in General Motors Corporation within sixty days to the Federal District Court at Chicago and begin disposing of its holdings within ninety days, completing the job in not more than ten years.

The government has thirty days in which to comment or propose amendments to the disposal plan after it is submitted. The ninety-day starting date is from the date the district court enters is final order.

The first legislative move to ease the tax burden that might possibly fall upon the stockholders of duPont, should they be forced to accept the GM stock in the form of a dividend, meanwhile, was taken in congress last week with introduction of a bill by Rep. Harris B. McDowell of Delaware.

His bill is similar to the legislation that was considered, but not acted upon finally, last session. It would allow the duPont shareholders to value the stock to them at its original cost to duPont of about $2.09 a share on which they would pay the normal tax. When sold, the profits would be taxed as a capital gain.

Mr. McDowell urged the ways and

—Continued on page 58

Phthalic, Calcium Carbide Units Planned in Belgium

Belgian production of phthalic anhydride and calcium carbide, two fast growing products in many European chemical markets, are being boosted.

Union Chimique Belge SA is adding another 5,000 tons of annual capacity to its phthalic output. The new unit will be at Schoonaarde. The addition will raise Union Chimique's phthalic capacity to 15,000 metric tons a year.

Soc. Applications de Chimie Industrielle of Belgium is building a new high capacity calcium carbide plant which is expected to go on stream next year.

Montrose, Two Others Get Okay on a Merger

Merger of Montrose Chemical Company, Baldwin Rubber Company and Centlivre Brewing Company has been given the final okay by stockholders of all three firms.

Baldwin Montrose Chemical Company, the surviving firm, had combined 1960 sales of $30 million. Baldwin Montrose also has a 50 percent interest in an affiliate, Montrose Chemical Corporation of California, whose 1960 sales totaled $18 million.

Montrose stockholders voted on the merger in Jersey City, N. J., Baldwin's in Pontiac, Mich., and Centlivre's in Fort Wayne, Ind.

Polyformaldehyde Properties: Vive La Difference!

Polyformaldehyde resin battle lines between Celanese Corporation of America and E. I. duPont de Nemours & Co. are taking on sharper definition—at least, in terms of property differences.

DuPont (maker of "Delrin" acetal resin) claims that "Celcon" (Celanese's acetal product) infringes on the former company's patent position on polyformaldehyde resins.

But Celanese continues on its merry way with development of "Celcon" (in fact, it's ahead of schedule on construction of a commercial plant in Bishop, Tex.), insisting up and down that its product is not covered by duPont's patent.

Specifically, duPont has hauled Celanese into court charging infringement of duPont patent No. 2768994 on its polyformaldehyde resin (OPD, 4/17/61).

But Celanese, which estimates that the present 10-million-pound market for such material will grow to 200 million pounds by 1970, maintains the legal attitude that duPont's case is "without merit."

Last week before the New York Society of Security Analysts, Richard W. KixMiller, executive vice-president of Celanese, spelled out some of the differences between "Celcon" and "Delrin" acetals, albeit in a one-sided way.

While conceding that a number of properties of the two resins were quite similar, he cited the following differences:

- "Celcon" shows superior long-term resistance to property degradation (high temperature, exposure, etc.)
- "Celcon" is superior to "Delrin" in alkali resistance.
- The Celanese acetal resin is superior to the duPont resin in degradation prop-

—Continued on page 39

Water Pollution Control Leaves Senate With a Pair of Choices

A stepped-up program of water pollution control may come before the senate for approval this week, with the legislators given the choice of either of two courses of action: (1) They can vote to double the present program and give it new administrative direction as called for by the Blatnik bill, HR 6441, or (2) they can agree to a more moderate pace by continuing the present administrative set-up and adding funds to the program as it gains momentum, as provided for by the Kerr bill, S 120.

The choice was given to the senate last week by the committee on public works, when it decided to report the Kerr bill with certain modifications to the senate in place of the Blatnik measure that previously passed the house by a near three-to-one vote.

Consideration May Come This Week

No date has been fixed for senate consideration of the issue, but it may come this week if the omnibus housing bill is disposed of in time. If the senate adopts the Kerr bill, as expected, both bills then will be sent to conference, where a compromise on the differences can be hammered out.

Of the two proposals, the chemical industry has expressed a strong preference for S 120, although several changes were made in its provisions, that will make it less palatable to the industry.

For one thing, the committee followed the path laid out in the Blatnik bill of extending the jurisdiction of the federal government to all navigable waters instead of limiting it to interstate waters.

Also, the committee decided to double the amount of the federal government's contributions for individual projects to $500,000 from the present law's ceiling of $250,000. At that, however, the committee did not reach the limit of the Blatnik bill, which fixes the ceiling at $800,000.

As originally drawn, the Kerr bill proposed to raise the annual appropriation for water pollution control work to $75 million from its presently authorized level of $50 million. The Blatnik bill pro-

—Continued on page 50

Measles Immunization: Topic for Drug Men

A conference on measles immunization will have the attention of the world's drug makers when it takes place November 7 to 9 at the National Institutes of Health in Bethesda, Md.

The meeting will cover: worldwide epidemiological aspects of the disease, properties of attenuated measles virus strains, field data on the use of live attenuated vaccines, problems of production of the vaccines and biological control, and the future of measles immunization.

Dow Plans to Double Methyl Cellulose Stake

As the cellulosic business booms, Dow Chemical Company is readying a three-pronged attack on a market which, as far as US production is concerned, remains exclusively Dow's—methyl cellulose products.

Plans announced last week call for doubling the company's estimated 12 million pounds of capacity, introducing a new product line at lower price and switching all prices to a delivered basis.

With increased capacity already available at Midland, Mich., Dow has slated a new facility for its Plaquemine, La., complex, and expects to have it on stream in August.

Both plants will turn out methyl cellulose and hydroxypropyl methyl cellulose. Under the trade mark "Methocel," Dow is reportedly the only US producer of these materials.

Premium and standard grades in the new product line-up, Dow says, have been priced "as much as 13 cents a pound lower." Pre-payment of freight will further reduce the delivered cost to customers.

Both the increased capacity and the

—Continued on page 38

Antimony Compounds Hiked

Hooker Chemical Corporation, Niagara Falls, N. Y., has posted higher quotations for antimony pentachloride and trichloride, effective July 1, in line with the recent 5 cents advance in antimony metal. Pentachloride will be raised 2½ cents and trichloride 3½ cents a pound across the board.

Dutch Chemical Profits: Way Up and Way Down

Major Dutch chemical firms report divergent profit experience for 1960, with Koninklijke Nederlandsche Zoutindustrie NV showing a 26 percent gain in net and Koninklijke Zwafelzuurfabrieken Ketjen disclosing an 18 percent decline.

KNZ says its sales of salt increased 12 percent last year, exceeding one million tons for the first time, and sales of electrolysis products rose 7 percent to 227,000 tons. Sales and profits for 1961 are expected to at least equal 1960. KNZ reported net of $6.8 million for 1960.

Ketjen, a sulfuric acid producer, notes that its sales were up 4 percent last year, but rising costs cut profits to $2.2 million from $2.7 million in 1959.

KNZ and Ketjen are in process of negotiating merger terms to produce a larger and more broadly based chemical company for competition in the Common Market.

The Week's Price Changes

Cocoa Butter, Lemon Oil, Peanut Oil, Soybean Oil Advanced. Copra, DDT, Greases, Lard, Methyl Anthranilate Reduced.

Prices Advanced

Cocoa butter, 1c. per lb. (p. 57).
Cottonseed oil, crude, ¼c. per lb. (p. 57).
Refd., ¼c. per lb. (p. 57).
Lemon oil, 65c. per lb. (p. 52).
Peanut oil, crude, ¼c. per lb. (p. 57).
Refd., ½c. per lb. (p. 57).
Soybean oil, crude, ¼c. per lb. (p. 57).
Refd., ¼c. per lb. (p. 57).

Prices Reduced

Copra, $2.50 per ton (p. 57).
DDT, 2c. per lb. (p. 41).
Geranium oil, Bourbon, $2 per lb. (p. 52).
Greases, ½c. per lb. (p. 57).
Lard cash, ½c. per lb. (p. 57).
Linseed meal, $1 per ton (p. 57).
Methyl anthranilate, 5c. per lb. (p. 52).
Peanut meal $2 to $3 per ton (p. 57).
Soybean meal, $1.50 per ton (p. 57).
Tallow, inedible ½c. per lb. (p. 57).
Tung oil, ½c. per lb. (p. 57).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER's relative record of prices of chemicals and related materials is currently as follows:

June 2, 1961	May 26, 1961	June 3, 1960
113.46	113.48	110.31

TEL: Air Pollution Culprit?

Is tetraethyl lead a major culprit in air pollution? To determine if it is, Public Health Service last week moved in on Philadelphia, Los Angeles and Cincinnati, Ohio, and began intensive studies of lead levels—both in the air and in human systems. The studies are the outgrowth of recommendations on tetraethyl lead made by a special advisory committee to the Surgeon General. The committee suggested that PHS, in collaboration with manufacturers of tetraethyl lead and other appropriate organizations, conduct studies to help develop hygienic standards for atmospheric lead and to learn more about the body burden of lead in various selected population groups.

Two types of studies are to be made:

- First, the air over the three cities at several sites will be sampled and measured for the presence of lead contaminants.
- Second, medical studies will evaluate lead levels in the blood and urine of both average population groups and other groups whose work exposes them to heavy amounts of auto exhaust.

In addition, special studies may be made of carbon monoxide and airborne lead in such locations as garages and vehicular tunnels, where they are presumed to be more concentrated.

The community studies in Philadelphia and Los Angeles are being conducted by the Air Pollution Division of the Public Health Service in cooperation with the Philadelphia city and California state health departments.

The Cincinnati study is being conducted by the Kettering Laboratory of the University of Cincinnati, supported by funds from Ethyl Corporation and E. I. duPont de Nemours & Co.

Pyrites Processing Facility Due by Montecatini in '62

Montecatini of Italy expects to start up a new pyrites processing plant the middle of next year which will have a yearly capacity of 170,000 tons of iron ore and 350,000 tons of sulfuric acid.

Using a new process, the iron ore will have an iron content of 65 percent iron and, after a sintering stage, will be usable in blast furnaces. The company also plans to use heat from the pyrites roasting furnaces to produce steam for electric power generation.

Atlas Buys Up Stuart, West Coast Drug Firm

Stuart Company, a west coast drug maker, has just become part of Atlas Chemical Industries, Inc. The merger went into effect May 31 along with a four-for-one split of Atlas stock.

Atlas, already a producer of pharmaceuticals, as well as chemicals and explosives, will operate Stuart as a fourth corporate division at its present location in Pasadena, Calif. Other Atlas divisions are chemicals, explosives and international. The Stuart name will be retained wherever possible, Atlas says.

Heyden's New Offering: Liquid Polyamide Resins

Heyden Chemical Division of Heyden Newport Chemical Corporation is now offering commercial quantities of the first two products in a new series of liquid polyamide resins for use as curing agents with epoxies.

Trade-named "Pentamid 1" and "2," the materials are blended with epoxies for use primarily in coating, tooling and adhesive applications.

When cured, the blends are said to possess flexibility, exceptional adhesion, high mechanical strengths, excellent resistance to solvents, chemicals and water and ease of handling.

Celanese Elects Director

Celanese Corporation of America, New York, has elected James R. Kennedy, its executive vice-president in charge of finance and administration, to a place on the board of directors.

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NH_3: Squeeze by Coops

Is the independent anhydrous ammonia distributor headed for extinction?

The signs appear to point in that direction and unless, in revising the tax laws as they affect cooperatives, the Kennedy administration decides to go all the way and tax them on parity with private businesses, independent dealers feel there's no arresting the trend.

Here's a case in point:

In 1952, there were no cooperatives in Nebraska handling anhydrous ammonia. In 1959 there were only a few handling it.

But, by 1959, after the market had been pioneered and developed by independent dealers, the cooperatives had 25 percent of the state's ammonia tank installations, and better than 40 percent of the business.

Such is the story told by Frank Gallup, president of Agricultural Services, Inc., Grand Island, Neb., one of the state's earliest ammonia distributors.

Since 1952, Agricultural Services has expanded its business so that it now operates in seven Nebraska locations.

"But despite my efforts to build a sound company," says Mr. Gallup, "I am likely to be forced out of business in the next few years."

As he sees it, federal tax laws unfairly allow two identical businesses (one a cooperative) to "pay different tax bills," though they are "located on the same street in the same town performing the same service with the same customer."

Because of the difference, one is said to be going downhill and the other is ready to swallow it up.

"Gentlemen," Mr. Gallup told congress last fortnight, "this is a

—Continued on page 56

OPD Reports From Europe

German 'Big Three' in Chemicals Have No Fear of Economic Shoals

The "Big Three" of the German chemical industry—Farbenfabriken Bayer, Farbwerke Hoechst and Badische Anilin & Soda Fabrik—are bravely determined to sail full speed ahead this year, despite the fact that they are in shoal waters. The industrial giants are planning to maintain their forced draft expansion even in face of such dangers as pressure on prices, tightening profit margins and a declining rate of sales growth. But, the "Big Three," and others in the German industry, too, are expected to put major efforts into "rationalization" of operations in an effort to bring costs down. And aggressive sales technics are also expected to be exploited in an effort to increase volume as prices decline and revaluation of the mark hits profits.

R&D CHIEF: Dr. Edward L. Carr, named manager of research and development for Firestone Synthetic Rubber & Latex Company, in Akron, Ohio.

A $5 Million Jolt for Hoechst

Revaluation will cost Hoechst a direct $5 million loss in sales this year with price cuts adding another $7.5 million to $10 million to the lost volume, according to Prof. Karl Winnacker, chairman.

BASF officials estimate their company's price-cut volume losses last year at $12.5 million.

These figures gain added emphasis from reports seeping out of bargaining sessions at the big German Industries Fair at Hanover last month. Major plastic producers are widely reported to have chopped some product prices by up to 5 percent. Cheaper imports of basic

—Continued on page 40

Tung Oil Supply Is Seen Greatly Under Last Year's

With the milling season now ended, domestic supplies of tung oil for the 1960-61 marketing year will total about 76 million pounds or 22 million pounds less than a year ago, according to the Department of Agriculture. The decline is largely due to the short oil crop this year.

Estimates contained in the department's latest review of the fats and oils situation place production of tung oil from the 1960 crop of tung nuts at only 13 million pounds as compared with 34 million pounds last year. The reduction is the result of last year's freeze and drought.

The 76-million-pound supply is made up of the 13 million pounds of new pro-

—Continued on page 47

Fertilizer Ingredients: IMC Is Adding to Line

The fertilizer ingredients line of International Minerals & Chemical Corporation is going to get an addition: diammonium phosphate. New facilities to turn out the product are scheduled to be completed by October 31 in Bonnie, Fla.

The Skokie, Ill., company is planning to put $3.8 million into an expansion

—Continued on page 33

Chemical Future Expected to Be Full of Uncomfortable Moments As Antitrust Bills Stir Congress

Chemical manufacturers throughout the country, already beset by grand jury probings for evidence of price-fixing, are facing a future that is going to be full of uncomfortable moments. Congress is once more showing the first signs of getting into action on some of the antitrust bills that have been pending since the first of the year—and all the bills are aimed at arming the government with new measures for assuring industry compliance with the law.

Last week, the house antitrust subcommittee, headed by Rep. Emanuel Celler of New York, chairman of the judiciary committee, began hearings. They concerned legislation designed to tighten the laws on conflict of interest for people from the industry who are temporarily assigned to the government to provide the expert knowledge needed in carrying forward some of the government programs.

Kefauver Is Coming Back

Next week, the senate antitrust committee, headed by Sen. Estes Kefauver, will begin hearings on the so-called civil demand bill. This measure would allow the Justice Department to subpoena the books and records of chemical companies and others being investigated for possible antitrust law violations, prior to the time civil action is brought against them.

Both of these proposals are given a good chance of enactment, if not this session, then sometime next session before the present congress expires. Time appears to be running against the bills this year because of the aims of the leadership, both the Democratic and Republican, to end the current session as close to July 31 as possible.

About the only bright spot in the antitrust legislation situation, which the chemical industry can see at this time, is the unlikelihood of any action being taken on the pre-merger notification bills. Though strongly supported by Attorney General Robert Kennedy, they are given very little chance of getting through.

The stumbling blocks in the path of these bills appear to be numerous. Hearings were held by the house antitrust subcommittee on the legislation late in April and early May, but the bills have been gathering dust since then. The subcommittee shows no signs of pressing them forward. And even if they survive the subcommittee, they still must face the uncertain action of the full committee, and certainly a blocking effort in the house rules committee.

In the senate, Sen. Kefauver has been so occupied with other matters, such as a raking over the coals of the electrical

—Continued on page 47

ON THE BOARD: John W. Brooks, elected a director of Celanese Corporation of America. He is the New York-based company's executive vice-president in charge of domestic operations.

Butyl Rubber as Latex Is Introduced by Enjay

Butyl rubber in latex form has just been made available by Enjay Chemical Company, a division of Humble Oil & Refining Company. The material, identified as latex "80-21," is described as a chemically stable emulsion of butyl rubber in water, containing about 55 percent solids.

Latex "80-21" reportedly can be compounded with pigments, fillers, thickeners and tackifiers. It is said to be compatible with a wide range of resin and elastomer emulsions. According to Enjay, the material has proved especially suitable for tire cord dipping in the manufacture of butyl tires.

Packaging is in insulated 8,000-gallon and 10,000-gallon tankcars lined with a phenolic coating, and in fifty-five-gallon, open-head, lined steel drums.

Propylene Oxide Plant On Wyandotte Agenda

Wyandotte Chemicals Corporation, in a move to meet growing demands from detergent and urethane producers, has decided to build a $3.5 million propylene oxide installation in the company's home town, Wyandotte, Mich.

Just how much material the proposed plant will produce is still a company secret. Construction is expected to start within a few months and the facilities should be completely on stream by mid-1962.

Construction of the plant, slated for a twenty-three-acre waterfront site recently acquired by the company, will be the responsibility of the firm's Michigan Alkali Division.

Currently, propylene oxide is being made at another installation in Wyandotte and at a company plant in Washington, N.J. Facilities are also available at Geismar, La., should the company decide to produce the material there.

Polyethylene Package Unit Of Kordite Ready on July 1

Kordite Company, a division of National Distillers & Chemical Corporation, will be on stream July 1 with a $1 million plastic bag and packaging films plant in Tyler, Tex.

The Macedon, N.Y., firm has purchased a 43,000-square-foot one-story building in Tyler, and is currently installing machinery. Polyethylene raw material will be obtained from the Houston, Tex., plant of U.S. Industrial Chemicals Company, another National Distillers division.

United Nuclear Picks Up Three Firms in Its Field

United Nuclear Corporation, New York, which has had the idea in mind for some time (OPD, 3/20/61), has just acquired the assets of three companies long active in the nuclear industry.

In exchange for common and preferred stock, United Nuclear has taken over the nuclear fuels operation of Olin Mathieson Chemical Corporation, the nuclear division of Mallinckrodt Chemical Works and Nuclear Development Corporation of America.

Cancer Weapon Seen in VA-Synthesized Compound

Drug researchers of Veterans Administration are closing in on what may prove to be a new and vital tool in the fight against cancer.

Working in the area of glyco-lipids, the VA people have synthesized a chemical which appears after preliminary tests to be identical to cytolipin H, a naturally-occurring compound found in high concentration in most human cancer cells.

The synthetic, produced in minute quantities after a year of experimentation at the Dallas, Tex., Veterans Administration Hospital, "may help solve major mysteries" about the disease, VA says.

Further tests will be required to establish the degree of similarity or identity between the natural and synthetic compounds, but in any case, VA expects to learn something about the operation of the condition and the body's resistance to it.

Dr. Alfred C. Schram, the VA biochemist responsible for the synthesis, has just refined and improved his original manufacturing process. He has this to say:

"Being able to produce this compound in the laboratory is important because it offers a new approach to learning what makes a cancer cell a cancer cell, and perhaps to explain why cancers kill people."

Furthermore, since cytolipin H is known to have some association with the production of antibodies, Dr. Schram asserts that the synthetic "undoubtedly will speed investigation of natural immunology against cancer, particularly development of possible vaccines."

"If the synthetic eventually proves to be an isomer of cytolipin H, it offers research possibilities as a therapeutic agent," he adds.

Synthesis of a small amount of the

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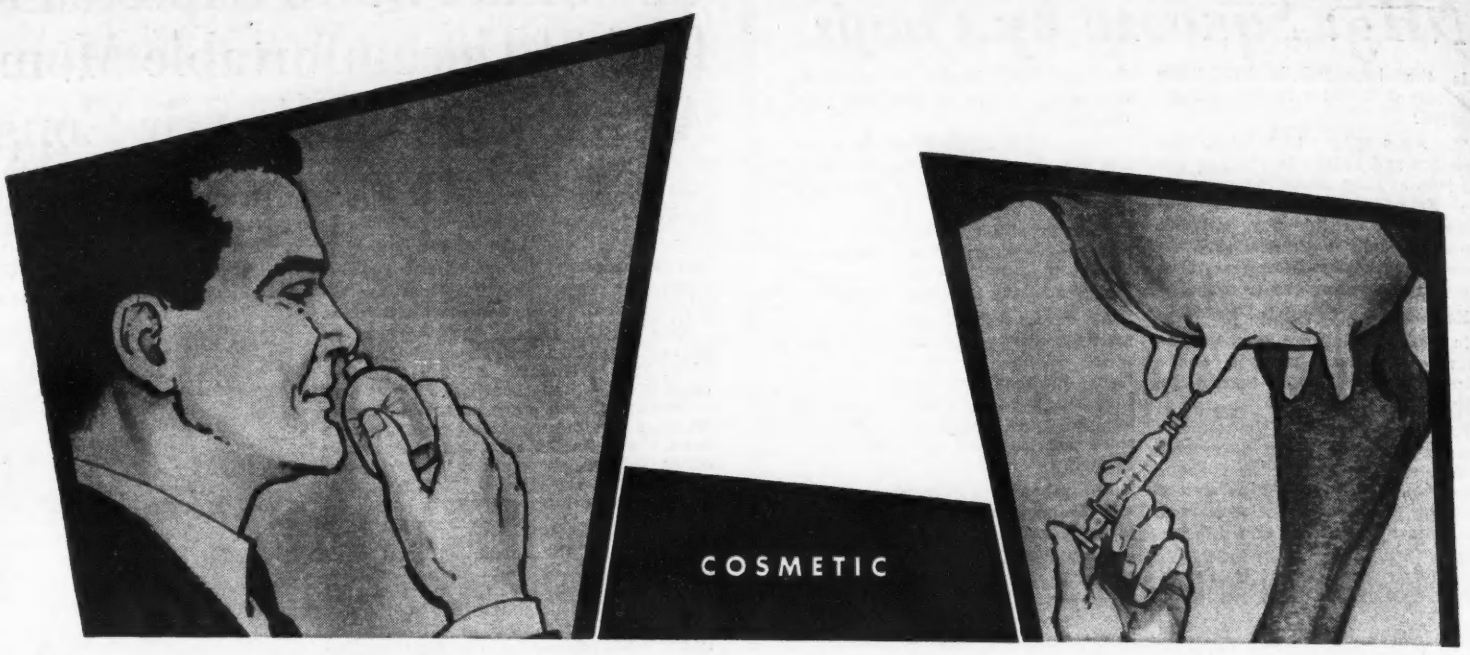

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LOS ANGELES SAN FRANCISCO PORTLAND, ORE.

HEADS LABORATORY: Dr. Henry A. Hill elected president of Riverside Research Laboratory, Inc., Cambridge, Mass., where he will direct basic and applied chemical research.

Butyl-Lithium Plant: Giant Goes on Stream

Foote Mineral Company has just put on stream at New Johnsonville, Tenn., a butyl-lithium plant which is reportedly "the first and largest facility of its kind" in operation anywhere.

The plant features large-scale production (100,000 pounds a year at normal rates) and high-purity organolithium chemicals.

Completely integrated, the operation is set up to produce lithium metal dispersions, n-butyl-lithium and sec-butyl-lithium, while other lithium alkyds will be added later. Also available are facilities for storing raw materials and for disposing of waste safely and efficiently.

News of the Foote plant follows a report (OPD, 5/8/61) from Lithium Corporation of America, which has gone into commercial production on a new "solid" form of n-butyl-lithium.

The new Johnsonville plant, as well as its process, was designed and engineered by Foote technical personnel, who built their plans on data they had previously obtained during extensive laboratory research.

The process emphasizes strict quality control and, says Foote, results in high purity of the finished product, even on the large production scale now possible.

To insure utmost purity for catalysts and other organic reactions, Foote makes its butyl lithium in a pure hydrocarbon and in a carefully-controlled process. The production line chemical now offered to industry is highly reactive and contains a minimum of 96 percent carbon-bound lithium.

The product is a standard catalyst for

—*Continued on page 45*

Plastics Society Elects Oelman to Its Presidency

Society of the Plastics Industry has elected Walter F. Oelman its new president. Mr. Oelman is treasurer of Standard Molding Corporation, Dayton, Ohio.

Other newly-elected officers are: Vice-president, T. T. Miller, president of the polymer chemicals division of W. R. Grace & Co., and secretary-treasurer, Harry M. Jenkins, general manager of General American Transportation Company, Chicago.

The society has also elected Russell C. Weigel, who is assistant general manager of the polychemicals department of E. I. duPont de Nemours & Co., chairman of the SPI board (see picture on this page).

Petrochemical Ideas Growing In Minds of Sweden's Leaders; Esso's Foothold Is the Reason

While that nucleus of plastic and chemical plants grows up around Esso Svenska's Stenungsund steam cracker, the Swedes are beginning to think along petrochemical lines even more ambitious. The Swedish affiliate of Standard Oil Company (New Jersey) has scheduled start-up of ethylene and butadiene facilities at Stenungsund for January, 1963, and recently announced that a polypropylene plant would also be put up at the site (OPD, 5/1/61). But why not go all the way, the Swedish press is now asking, and become self-sufficient in organics?

Chemical industry officials in Sweden seem to be responsive to the idea. According to reports from Business & Defense Services Administration, pharmaceutical and plastic makers in particular would like to eliminate their dependency on imported organics, thereby strengthening their own position in export markets.

Size Is the Question

Chief difficulty, however, and one that makes the question controversial is this: A petrochemical industry tailored just to suit Sweden's needs would be too small to be economical.

On the other hand, a larger one requiring export markets would run into competition with England, France, Germany and Italy, whose combined petrochemical build-up is already formidable.

Such is the Swedish dilemma as reported by BDSA in its latest overseas round-up.

All polyethylene in Sweden is imported, mostly from the United States, and according to BDSA figures, demand trebled between 1955 and 1958, with imports rising from $1.9 million to a handy $5.8 million.

Those favoring a Swedish petrochemical industry argue that the country's progress in organics has been lagging "owing largely to neglect of the possibilities offered by petrochemicals."

Difficulties are said to center on the availability of capital and trained manpower as well as on assured markets overseas.

"Although demand for petrochemicals, especially from the plastics branch, is expanding and domestic production would reduce imports," BDSA goes on, "it is generally conceded that such an industry would still be heavily dependent on foreign markets."

While proponents see in the European Free Trade Association a ready means of expanding sales, others fear considerable competition from British capacity, "even on the Swedish home market."

The problems involved, particularly the marketing of petrochemicals, are reported to be under intensive study by major oil

—*Continued on page 37*

Air Pollution Theme Set: 'It's Everybody's Business'

"Air Pollution Is Everybody's Business." That will be the theme of the fifty-fourth annual conference of the April Pollution Control Association, slated for June 11 to 15 at the Commodore hotel in New York.

The meeting program will include more than seventy papers scheduled for eighteen technical sessions. Among them will be discussions on instrumentation, pollution standards, health, incineration, fuels, control equipment, meteorology and research.

A keynote session on "Air Pollution Standards" will be jointly sponsored by APCA and the Manufacturing Chemists' Association.

Arthur J. Benline, commissioner of the New York City Department of Air Pollution Control, has been named conference chairman.

IN TOP SPI POST: Russell C. Weigel, elected chairman of the board of Society of the Plastics Industry. He is assistant general manager of the polychemicals department of E. I. duPont de Nemours & Co., Wilmington, Del.

Airco Is Making Bid For Speer Carbon Co.

Air Reduction Company is moving into the carbon, graphite and electronic fields via acquisition of Speer Carbon Company, St. Marys, Pa. The acquisition, subject to approval by the boards of both companies and stockholders of Speer Carbon, calls for an exchange of stock worth $31 million at current market value.

In addition to carbon and graphite items, Speer Carbon manufactures a line of electronics products, including resistors, coils, capacitors, packaged assembly components and printed circuit assemblies.

The company's sales last year were $24,710,085, with earnings of $1,715,853. Air Reduction, which operates 160 plants in the US and Canada, had sales of $202,486,344 and profits of $14,692,381.

John A. Hill, president of Air Reduction, says the proposed acquisition is part of a continuing diversification of the company, which now produces industrial gases, welding and cutting equipment, medical gases and chemicals.

Dry Color Group Makes John Ackerman President

Dry Color Manufacturers' Association has elected Dr. John W. Ackerman, of Sandoz, Inc., New York, as president. Laurence Sherman of the Imperial Color Chemical & Paper Department of Hercules Powder Company, has been elected vice-president and Clyde Marlatt continues as secretary-treasurer.

Elected directors at the group's annual meeting in White Sulphur Springs, W. Va., last week were C. C. Candee, J. B. Eakins, Walter Marx, William C. Stark and Paul Tomassette.

Pesticides: Egypt Still Going Abroad For Its Supplies

Egypt's cotton industry is an avid consumer of toxaphene and other chlorinated pesticides, using better than 16 million pounds of US imports yearly. But as yet the country has taken no steps to implement a project, announced in its second five-year plan, to become self-sufficient in these materials.

Under the plan, the government intended to erect a toxaphene plant which would treat camphene imported from the US with locally-produced chlorine. Annual production capacity was to be 10,000 metric tons of toxaphene, or the equivalent of 16,000 tons of 60-percent emulsion.

Assessing its 1961 toxaphene requirements at 9,500 metric tons of 60 percent emulsion, the government has made no further disclosures on the construction project.

Egypt's 1961 Pesticide Needs*

Cotton Dust	1,100
DDT, 25 Percent	75
DDT, 50 Percent	1,380
DDT-Lindane (30-9 Percent)	4,500
Lindane, 25 Percent	385
Toxaphene, 60 Percent	9,500
Endrin, 19.5 Percent	570
Sevin	300
BHC	500
Strobane	11
Micronized Sulfur	15
Wettable Sulfur	80
Sulfur	6,000
Copper Oxychloride	37
Mercury Compounds	15
Thimet, 50 Percent	2
Dipterex	5,000
Malathion	30,000
White Emulsion Oil, Imported	67,000

*In metric tons, except for dipterex, malathion and white emulsion oil which are liters Source: Egyptian Ministry of Agriculture.

In 1959, latest year for which figures are available, Egypt imported 16.5 million pounds of chlorinated insecticides from the US, mostly toxaphene, valued at $3,360,000 million, according to a report from Business & Defense Services Administration.

The Ministry of Public Health at Cairo has also announced plans for a malaria eradication program, BDSA reports, but will not undertake it until a DDT plant at Kar el Zayat is operating at full capacity.

Although the facility has a potential capacity of 711 metric tons of technical DDT a year (twenty-four-hour basis), it

—*Continued on page 56*

Dow Is Now Full Owner Of Agrochemicals Concern

Dow Chemical Company, which previously owned 74 percent of Dow Agrochemicals, Ltd., now owns the whole thing. The Midland, Mich., company has just acquired all the outstanding shares of Agrochemicals, a British subsidiary.

Established three years ago, Dow Agrochemicals manufactures and markets Dow farm chemicals in the United Kingdom and several Commonwealth countries.

The stock which the Midland parent concern has just acquired had previously been in British hands.

Acquisition of all the shares by Dow is expected to spur development of the subsidiary and make available to it the full benefit of all the research and resources of the parent company.

Dow Agrochemicals, located in Kings Lynn, East Anglia, will continue to market its products in the United Kingdom in accordance with existing distribution arrangements.

Dr. Walter E. Ripper will continue as managing director of the subsidiary.

Nuclear Waste Role: AEC Shoves Industry Aside

Atomic Energy Commission has given up plans to have private industry produce useful fission products from nuclear reactor fuel wastes.

The agency has just decided to step up its own work in this field and will offer the products for sale to industry. It finds, says AEC, that this will be the more feasible plan.

Fission products are radioactive isotopes found in the wastes generated in processing "spent" nuclear reactor fuel for recovery of the unused source and special nuclear material.

Chief among the fission products to be made available are strontium-90, cesium-137 and cerium-144.

These products are presently available from AEC's Oak Ridge National Laboratory in limited quantities, but in order to supply the larger quantities expected to be needed in the future, the commission is setting up recovery facilities as part of its Hanford, Wash., operations.

Present plans would enable the commission to supply fission products in refined, chemical form in megacurie quantities beginning about mid-1963.

The isolated fission product compounds will be offered for sale to private companies interested in final processing of the material, fabricating it into finished products and developing useful applications. ucts centers in the beta-emitting stron-

The most active interest in fission prodtium-90 as a long-lasting source of heat energy that can be converted into low-wattage electric power.

Commonly called "nuclear batteries," these radioisotope power sources are being evaluated as a substitute or recharger

—*Continued on page 39*

Meeting Dates
May Be Found
On Page 34

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, June 2 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, ens. ..... lb. 1.90 - 3.40
Acacia (see Arabic gum).
Acetaldehyde, 99%, dms., c.l., frt. alld ... lb. .12 - —
dms., l.c.l., frt. alld ... lb. .13½ - —
tanks, frt. alld ... lb. .10 - —
Acetaldehyde prices 1c. higher in West.
Acetaldol (see Aldol)
Acetanilide, tech. flaked, bbls., bgs., c.l., frt alld lb. .32½ - —
bbls., bgs. ton lots, frt. alld, lb. .33½ - —
bbls., bgs. smaller lots, frt. alld lb. .36½ - —
USP bbls. 225-lb dms. any quantity lb. .90 - —
100-lb. dms., any quantity lb. .92 - —
Acetic acid, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls. ... 100 lbs. 8.25 - —
70%, bbls. ... 100 lbs. 9.95 - —
80%, bbls. ... 100 lbs. 10.45 - —
Acetic acid, glacial, syn., CP, dms., c.l., dlvd. E 100 lbs. 18.75 - —
tech., dms., c.l., dlvd. E. 100 lbs. 13.75 - —
dms., l.c.l., dlvd. E ... 100 lbs. 15.25 - —
tanks, dlvd. E ... 100 lbs. 10.00 - —
USP, tanks, dlvd. E ... 100 lbs. 13.00 - —
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½ - —
aluminum ret. dms., l.c.l., dlvd E. lb. .18 - —
tanks, dlvd. E lb. .14 - —
Acetic anhydride prices 1c. higher in West.
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib. dms., l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib. dms., l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
fib. dms., l.c.l. dlvd ... lb. .83 - —
Acetone, CP, dms., c.l., dlvd. lb. .10½ - —
dms., l.c.l., dlvd ... lb. .12 - —
tanks, dlvd. ... lb. .08 - —
Acetonitrile, dms., c.l., frt. alld lb. .34½ - —
dms., l.c.l., frt. alld ... lb. .36 - —
tanks, frt. alld ... lb. .32 - —
Acetophenetidin, USP, powd., 200-lb. dms., 1,000 lbs., frt. alld lb. 1.20 - —
100-lb dms., 1,000 lbs., frt. alld. lb. 1.22 - —
Acetophenone, ens., dms ... lb. .42 - 1.30
Tech., dms., c.l., works ... lb. .32½ - —
dms., l.c.l., works ... lb. .34 - —
tanks, works ... lb. .30 - —
N-Acetyl-p-aminophenol, dms., t.l. (min 23,000 lbs.), frt. adjusted lb. 1.30 - —
dms., 1,000-lb. lots, same basis ... lb. 1.40 - —
dms., 100-lb. lots, same basis ... lb. 1.54 - —
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .20 - —
cs., l.c.l., ex whse ... lb. .25½ - .31
Acetylene tetrabromide, 16-dm. lots or more, f.o.b. works lb. .53 - —
Acetylsalicylic acid, USP, cryst. (20, 40 mesh), powd. (80 mesh), 250-lb. dms., c.l., pt. of shipt lb. .56¼ - —
USP 10% starch granulation, 12-50 mesh, white, 250-lb. dms., c.l., same basis lb. .58¼ - —
(Pink and green granulations 5c. per lb higher.)
Freight equald. shipt. identical quantity over standard routes, from N.Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms. c.l., frt. alld. E. of Denver lb. .35½ - —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .36½ - —
tanks, frt. alld. E. of Denver, lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½ - —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .40½ - —
tanks, frt. alld. E. of Denver lb. .37 - —

ACIDS

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls. lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .36 - —
dms., l.c.l., works ... lb. .36¾ - —
tanks, works ... lb. .31 - —
Acrylamide, dms., t.l., f.o.b. works, lb. .58 - —
dms., l.t.l., same basis ... lb. .60 - —
Acrylic acid, glacial, dms., c.l., t.l., dlvd lb. .42½ - —
dms., l.c.l., l.t.l., dlvd ... lb. .43½ - —
tanks, dlvd. ... lb. .40 - —
tech., esterification, tanks, frt. alld. lb. .38 - —
tech., polymerization, tanks, same basis lb. .38 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .26 - —
dms., l.c.l., l.t.l., frt. alld ... lb. .27 - —
tanks, frt. equald ... lb. .23 - —

Abies Siberica Oil—Ammonium Bicarbonate

Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd ... lb. .32¼ - —
bgs., l.c.l., dlvd ... lb. .35 - —
Agar, USP, Kobe No. 1, strip, bls. lb. 3.00 - 3.10
powd., 30 mesh., fib. dms lb. 2.40 - 2.60
dl-Alanine, dms., 100-lbs. or more, f.o.b. works lb. 5.25 - —
dms., 1-99 lbs., same basis lb. 10.00 - —
Aldol, 95%, dms., l.c.l., works lb. .28 - —
Aldrin, tech., fib. dms., c.l., t.l. dlvd lb. .99 - —
fib. dms., l.c.l., dlvd ... lb. 1.04 - —

ALCOHOLS

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root, bgs lb. 1.50 - 1.75
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.45 - —
Alkali blue prices 1c. higher W of Rockies

Allethrin, 90%, dms., frt. alld lb. 28.80 - 28.90
Soln., 20%, dms., 200-2,000 lb. lots, frt alld lb. 6.50 - 6.55
2½% dms frt alld. lb. .95 - 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l. dlvd ... lb. .32½ - —
dms., t.c.l., dlvd. ... lb. .34 - —
tanks, dlvd. ... lb. .30 - —
Allyl bromide 55-lb cbys 5,005 lbs or more, works lb. 1.50 - —
55-lb. cbys., 1,045 to 4... lbs works lb. 1.55 - —
55-lb. cbys., 55 to 990 lbs works lb. 1.60 - —
Allyl chloride, dms., c.l., dlvd lb. 17½ - —
dms., l.c.l., dlvd ... lb. .19 - —
tanks, dlvd ... lb. .15 - —
Allyl isothiocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde)
Almond oil, nat., bitter, f.p.a., bots. lb 2.75 - 3.45
NF, bots. ... lb 3.00 - 3.30
sweet, USP, cns., dms ... lb .60 - .70
Aloe, Cape, cs. ... lb. .35 - .40
powd ... lb .60 - .65
Curacao, kgs. ... lb. .75 - —
powd., kgs. ... lb .85 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	No.	number
amorph.	amorphous	djns.	demijohns	nom.	nominal
AMP	American melting point	dlvd.	delivered	o-	ortho
anhyd.	anhydrous	dms.	drums	ord.	ordinary
AOAC	Association of Official Agricultural Chemists	dom.	domestic	oz	ounce
		E.	east	p-	para
a.p.a.	available phosphoric acid	e.p.	end point	Pac	Pacific
approx.	approximately	equald.	equalized	pf.	proof
artif.	artificial	exp.	expressed	phos.	phosphate
ASTM	American Society for Testing Materials	Ext.	external	photo.	photographic
		F.	fahrenheit	pkgs.	packages
Atl.	Atlantic	ferment.	fermentation	powd.	powdered
Be.	Baume	f.f.a.	free fatty acid	precip.	precipitated
bbls.	barrels	f.f.c.	free from chlorine	prod.	producer
bgs.	bags	fib.	fiber	pt	point
bls.	bales	f.o.b.	free on board	pulv.	pulverized
bots.	bottles	f.p.a.	free of prussic acid	purif.	purified
b.p.	boiling point	frt.	freight	redist.	redistilled
b.p.l.	bone phosphate of lime	gal.	gallon	refd.	refined
b.r.	boiling range	gran.	granular	refy.	refinery
bxs.	boxes	grd.	ground	reg.	regular
C.	centigrade	i.&a.	iron and aluminum	resub.	resublimed
cbys.	carboys	i.b.p.	initial boiling point	ret.	returnable
CD	completely denatured	imp.	imported	SD	specially denatured
c.i.f.	cost, insurance, freight	incl.	included	s.d.	single distilled
cks.	casks	indust.	industrial	S E.	southeast
c.l.	carlots	kgs.	kegs	sec.	secondary
cns.	cans	l-	laevo	secs	seconds
coml.	commercial	lacq.	lacquer	s.g.	specific gravity
conc.	concentrated	lb	pound	shipt.	shipment
CP	chemically pure	l.c.l.	less carlots	soln.	solution
cps.	centipoises	l.t.l.	less truckload	s.u.	standard unit
cryst.	crystalline	liq.	liquid	syn.	synthetic
cs	cases	mfrs.	manufacturers	tanks.	railroad tankcars
ctns.	cartons	m-	meta	tech.	technical
cyls.	cylinders	m.a.p.	mixed aniline point	tert-	tertiary
d-	dextro	min.	minimum	t.l.	truckloads
dbl.	double	m.p.	melting point	t.w.	tankwagons
denat.	denatured	N-	nitrogen	USP	U. S Pharmacopoeia
dest-dist.	destructively—distilled	n-	normal	vis.	viscosity
dl-	dextro-laevo	nat.	natural	VM&P	varnish makers & painters
dist.	distilled	neut	neutral	W.	west
		NF	National Formulary	whse.	warehouse
		NNR	New and Nonofficial Remedies	w.w	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Alpin, USP, bbls., dms., bgs. ... lb. 2.25 - 2.70
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpinol (see a-Terpinol).
Alphatocopherol (see a-Tocopherol).
Alum ammonium, gran., bgs., works 100 lbs. 4.30 - —
Lump, dms., works ... 100 lbs 5.05 - —
Powd., dms., works ... 100 lbs 5.20 - —
USP, burnt., dms ... lb. .20 - .21
hydrous, dms ... lb. .07¾ - .08
Alum potassium, gran., bgs., works. 100 lbs 4.55 - —
Lump, dms., works ... 100 lbs 5.30 - —
Powd., dms., works ... 100 lbs 5.45 - —
USP, burnt., dms ... lb. .20 - .21
USP hydrous, dms ... lb. .07¾ - .08
Alum, potash-chrome, dms lb. .17 - —
Alumina, calcined bgs., c.l., works lb. .0535 - —
bgs., l.c.l., works ... lb. .056 - .0639
Aluminum acetate, basic soln., 24%, bbls. l.c.l works lb. .14 - —
Aluminum chloride coml., anhyd., dms., c.l., works, frt equald lb. .16 - —
dms. l.c.l. works lb. 16¼ - —
cryst. dms. c.l. works 100 lbs 21.00 - —
dms., l.c.l. works 100 lbs. 21.50 - —
Soln., 32° cbys., c.l., works lb 0495 - —
cbys., l.c.l., works lb .0570 - .1095
tanks, works 100 lbs. 3.95 - —
NF, gran. dms., works lb. .31 - .32
Aluminum fluoride tech., anhyd., bgs., c.l. works lb. .16¼ - —
bgs., l.c.l. works lb. .17¼ - .19¼
bulk, c.l. basis 80% lb. .14½ - —
Aluminum fluoride in fib dms. 0.35c per lb higher
Aluminum formate, basic soln., containers extra, c.l., works 100 lbs. 11.00 - —
containers extra, l.c.l. works 100 lbs. 11.50 - —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .0370 - —
bgs., 20,000-40,000 lb. lots, same basis lb. .0395 - —
bgs., 2,000-20,000 lb. lots, same basis lb. .0495 - —
bulk, c.l. same basis lb. .0330 - —
Light, bgs., c.l., t.l., works ... lb. .09½ - —
bgs., t.l., to c.l., works ... lb. .10½ - —
bgs., l.t.l., works ... lb. .11½ - —
Aluminum hydroxide, dried, USP XV fib dms., works lb. .82½ - —
fib dms., contract, works lb. .79½ - —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
9-9½% Al_2O_3, fib dms. works, lb. .19 - —
fib. dms. contract, works lb. .18 - —
Aluminum hydroxide, tech., powd., (see Aluminum hydrate)
Aluminum metal, 99½% + 30-lb ingots, 10,000-lb lots, frt. alld lb. .2810 - —
50-lb pigs, 10,000-lb lots, frt alld. lb. .26 - —
Aluminum oxide, amorphous (see Alumina, calcined)
Aluminum paste lining, extra-fine, dms lb. .71 - —
Standard grade, dms lb. .48½ - —
Aluminum powder lining, extra-fine, dms lb. 1.13 - —
Standard grade, dms lb. .83 - —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c per lb for 100-lb. dm., 1½c per lb. for 50-lb dm., 3c. per lb. for 10 lb can and 5c to 12c. per lb. for smaller containers. Deduct 1c per lb. for single shipment of 400 to 1,499 lbs. 2c for 1,500 to 4,999 lbs., 3c for 5,000 to 29,999 lbs and 4c for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or more.
Aluminum resinate, precip., 2.1% Al, dms lb. .45 - —
Aluminum stearate, dibasic ctns., c.l lb. .39 - —
ctns., l.c.l. ... lb. .40 - .44
Monobasic, ctns., c.l. ... lb. .39 - —
ctns., l.c.l. ... lb. .40 - .44
Tribasic ctns., c.l. ... lb. .39 - —
ctns., l.c.l. ... lb. .40 - .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton. 41.00 - —
bulk, c.l., same basis ton. 40.00 - —
lump, bgs., c.l., same basis ton. 44.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.80 - —
bgs., l.c.l., works, frt. equald. 100 lbs. 4.30 - 8.30
USP, gran., 400-lb. dm., works. lb. .30 - —
USP, powd., dms., works lb. .27 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 6.50 - 10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.35 - 1.60
Aminoazotoluene base, bbls., 100% basis lb. 1.15 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb 1.72 - —
2-Amino-4-chlorophenol, tech., solid, dms., frt. alld lb. 2.15 - 3.85
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb. 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., l.c.l., dlvd ... lb. .49 - —
tanks, dlvd. ... lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., l.c.l., frt. alld. ... lb. .45 - —
tanks, frt. alld. lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. lbs. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dm., frt. alld lb. 3.25 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald E. of Rockies ton. 92.00 - —
refrigeration, tanks, works, frt equald. E. of Rockies ton. 94.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies ton. 95.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal., gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
bgs. l.c.l., same basis 100 lbs. 8.65 - 12.65
Ammoniac, sal., white (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, 100-lb. dms., 1,000-lb. lots, works. lb. 1.90 - —
Ammonium biborate, gran., dms., c.l., works ton 325 - —
dms., ton lots, ex whse. 100 lbs. 22.86 - —
dms., smaller lots, ex whse. 100 lbs. 24.11 - —
Ammonium bicarbonate, dom., dms., c.l., works 100 lbs. 7.50 - —
dms., l.c.l., works ... 100 lbs. 9.50 - —

Ammonium bichromate, dms., works lb. .42 .43
Ammonium bifluoride, dms., dlvd lb. .3145- .2245
Ammonium bromide, NF, gran., dms., c.l., t.l., frt. equald lb. .44 . —
dms., l.c.l., same basis lb. .46 . —
Ammonium carbonate, USP, lump, dms., c.l lb. .15½- —
Ammonium chloride, white, tech., fine gran., bgs., c.l., works 100 lbs 6.00 —
bgs., l.c.l., works 100 lbs. 6.00 6.45
USP gran., 250-lb. dm. lb .17¼ —
Ammonium citrate dibasic, 250-lb. dm. f.o.b. works lb .77 . —
Ammonium dichromate (see Ammonium bichromate)
Ammonium fluoride (see Ammonium bifluoride)
Ammonium gluconate, tech., 200-lb. dm., f.o.b. works E lb. .45 . —
Ammonium hydroxide (see Ammonia aqeous)
Ammonium iodide, NF, 25-lb. jar, f.o.b. works lb. 4.51 . —
Ammonium lauryl sulfate, dms., c.l., frt. alld lb. .20½- —
dms., l.t.l., frt. alld lb .21½- —
tanks, frt. alld lb. .19½- —
Ammonium lignin sulfonate, bgs., c.l., works 100 lbs. 3.25 —
bgs., l.c.l., works 100 lbs. 3.40 3.65
Ammonium linoleate, 80%, dms., works lb. .50 .55
Ammonium molybdate, CP, cryst., 400-lb. dms., 15,000-lbs. works lb. 1.23 . —
400-lb. dms., 2,000-lb. contracts, works lb. 1.23 . —
400-lb. dms., works lb. 1.24 . —
Ammonium nitrate, dom., fertilizer grade, 33.5% N, bgs., f.o.b. works ton.67.00 . —
Ammonium nitrate, dom., with dolomite, 20.5% N, bgs., c.l., Hopewell, Va. ton.48.00 . —
Imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $3 ton base price ton.70.00 . —
Ammonium oxalate, tech., fine gran., 250-lb.-dm., f.o.b. works E lb. .28½- —
Tech., powd., 200-lb. dm., same basis lb. .28½- —
Ammonium pentaborate, gran., bgs., c.l., works ton.193.00 . —
bgs., ton lots, ex whse 100 lbs.15.27 . —
bgs., smaller lots, ex whse 100 lbs.16.52 -18.52
Ammonium pentaborate powder $10 per ton higher in bags.
Ammonium persulfate, tech., dms., 10-ton lots or more, works lb. .18 . —
dms., smaller lots, works lb. .20 . .23
Ammonium phosphate, comi., bgs., c.l., works, frt. equald lb. .09¼- —
bgs., l.c.l., same basis lb. .10 . —
Dibasic, NF, V, bbls., dms lb. .46 . —
Dibasic, tech., bgs., c.l., works, frt. alld lb. .09¼- —
Ammonium silicofluoride, dms., works lb. .12¼- .13¼
Ammonium sulfamate, bgs., c.l., t.l., works lb. .19 . —
bgs., l.c.l., works lb. .20½- .27
Ammonium sulfate, standard granular, bulk, f.o.b. works, base price ton.32.00 . —
Purif., c.l., 100-lb. bgs., f.o.b. works lb. .08½- —
Large granular, bulk, c.l., works. ton.35.00 . —
bgs., c.l., works ton.40.00 . —
Tech., bulk, c.l., t.l., works ton.52.00 . —
bgs., c.l., t.l., works ton.56.00 . —
bgs., l.c.l., l.t.l., works 100 lbs. 3.20 . 5.20
Ammonium sulfide, liq., 40-44%, tanks, frt. equald., 100% basis, ton.160.00 . —
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Ammonium thiocyanate, tech., cryst., dms., c.l., works lb. .20 . —
dms., l.c.l., works lb. .22 . .26
Tech., soln., 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼- —
Ammonium thioglycolate, comi., 55-gal. dms., ton lots, 100% basis lb. 1.15 . —
d-Amphetamine hydrochloride, monobasic, dms lb.17.50 -23.50
dl-Amphetamine hydrochloride, dibasic dms lb. 4.50 . 6.00
d-Amphetamine phosphate, fib. dms., 100-lb. lots lb.15.00 . —
dl-Amphetamine phosphate, dms.lb. 4.20 . 5.60
d-Amphetamine sulfate, fib. dms. lb.15.00 -17.00
dl-Amphetamine sulfate, fib. dms., lb. 4.20 . 5.60

Amyl acetate, ex fusel oil, tech., dist., from 125° to 150°C., dms., c.l., frt. alld. E. of Rockies lb. .18½- .20
dms., t.c.l., same basis lb. .20 . .20½
tanks, same basis lb. .19 . .19½
ex pentane, reg., dms., c.l., dlvd. lb. .19 . —
dms., t.c.l., dlvd. lb. .21½- —
tanks, dlvd. lb. .16½ —
Tech., dms., c.l. dlvd. lb. .17 . —
dms., t.c.l., dlvd. lb. .18½- —
tanks, dlvd lb. .14½- —
Syn., oxo process, dms., c.l., dlvd. lb. .19 . —
dms., c.l. dlvd. lb. .20½- —
tanks, dlvd lb. .16½ —
Amyl alcohol, ex fusel oil (see Fusel oil refd).
Amyl alcohol, ferment, refd., 128°-132°C., dms., t.c.l., dlvd lb. .43½- —
refd., ACS grade, dms., t.c.l., dlvd lb. .45½ —
ex pentane, mixed amyls, dms., c.l., frt. alld lb. .19 . —
dms., t.c.l., frt. alld lb. .20½- —
tanks, frt. alld. lb. .16½- —
Amyl alcohol, primary, dms., c.l., frt. alld lb. .20¼- —
dms., t.c.l., frt. alld lb. .21¾- —
tanks, frt. alld lb. .17¾- —
Sec-synthetic, dms., c.l., works, frt. alld lb. .19 —
dms., t.c.l., same basis lb. .20½- —
tanks, same basis lb. .17 —
Tert-synthetic, dms., c.l., frt. alld. E lb. .17 —
dms., t.c.l., frt. alld. E. lb. .18½- —
tanks, frt. alld E. lb. .14½- —
Amyl alcohol, 1-pentanol (syn. normal), dms., c.l., works lb. .41½- —
dms., t.c.l., works lb. .43 —
tanks, works lb. .39½- —
2-pentanol, dms., c.l., works lb. .65 . —
dms., t.c.l., works lb. 70 —
tanks, works lb. 60 —
Amyl n-butyrate, dms. lb. 1.00 1.25
Amyl cinnamic aldehyde, dms lb. 1.70 2.30
p-tert Amyl phenol, dms., c.l., works. lb. .28 . —
dms., t.c.l., works lb. .29 . —
Amyl salicylate, cns., dms. lb. .71 . —
Amyris oil, dms lb. 1.50 . —
Anethol, tech., dms. lb. .80 .85
USP, cns., dms. lb. 1.05 —
Angelica root, bls lb. .50 1.00
Angelica root oil, bots lb.120.00 -140.00
Angelica seed oil, bots lb.120.00 -130.00
Aniline dms., c.l., frt. alld lb. .20 —
dms., t.c.l., frt. alld. lb. .21 . —
tanks, frt. alld. lb. .18 . —
Aniline oil (see Aniline).
Aniline salt, dms., c.l. t.l., 20,000 lbs. min., frt. alld lb. .33 . —
dms., t.c.l., same basis lb. .35 . —
Anise oil, USP, dms lb. 1.90 . 3.00
Anise seed, Turkish, bgs. lb. .24 . —
Spanish, bgs. lb. .26 . —
Anisic aldehyde, dms lb. 1.50 2.20
o-Anisidine, dms., c.l., frt. alld lb. .80 —
dms., t.c.l., same basis lb. .82 . —
tanks, same basis lb. .78 . —
p-Anisidine, dms., works lb. .97 . —
Anthracene, 90-95%, dms., c.l., t.l. f.o.b., works lb. .42½- —
dms., t.c.l., minimum shipment 1,000 lbs., same basis lb. .45 . —
Anthranilic acid, 99%, 150-lb. dms., dlvd lb. 1.15 . —
Anthraquinone, 99.5% bgs., c.l., frt alld lb. .70 . —
bbls., t.c.l., same basis lb. .73 . —
Electrical grade, bgs. t.c.l., same basis lb. 1.10 —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines. lb. .32½- —
cs., c.l., mines lb. .33 . —
Antimony oxide, bgs., c.l., frt. alld. lb. .26½- .30
bgs., t.c.l., frt. alld. lb. .28 . .31½
Prices of antimony oxide are 2c. higher west of the Rockies.
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 —
bgs., smaller lots, dlvd lb. .24 . .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 . —
pails, t.c.l., works lb. .43 . —
Antimony-potassium tartrate, tech., powd., 250-lb., dm., f.o.b. works, E lb. .69½- —
USP, powd., 250-lb. dm., same basis lb. .74½- —
Apomorphine hydrochloride, USP, bots., 25-oz. lots oz.35.60 . —
Apricot kernel oil, USP, dms lb. .55 . .70
Arabic gum, amber sorts, 10 bgs. lb. .21 . .23
USP, powd., bbls. lb. .27 . .30
Areca nuts, powd., bbls lb. .18 . .20
Arecoline hydrobromide, NF, bots., tins, 100 oz. or more oz. 4.00 . —
l-Arginine, free base, dms., 10-kilo lots or more kilo.90.00 . —
l-Arginine glutamate, dms., 10-kilo lots or more kilo.64.80 . —
l-Arginine monohydrochloride, dms., 10-kilo lots or more kilo.60.00 . —
Arnica flowers (true Montana), bls. lb. 75 . —
Aromatic petroleum solvents (see Solvent Naphtha, petroleum, aromatic).
Arsenic, crude (95%), bulk, c.l., works lb. .016 . —
bbls., c.l., works lb. .0.31 . —
Arsenic trioxide, NF, powd., dms., 300-lbs., f.o.b. works lb. .48 . —
Arsenic, white, powd., bbls., c.l., works lb. .04½- —
bbls., t.c.l., works lb. .06½- .07½
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons, deep shades, bbls. lb. 3.70 . —
Light shades, bbls. lb. 2.85 . —
Asafetida gum, cns lb. .38 . .40
Powd., bbls., dms lb. .75 . .80
Asbestine (see Talc, fibrous, New York).
Asbestos, Canadian crude
6D, c.l. (30 tons), mines ton.86.00 . —
7D, c.l. (30 tons), mines ton.75.00 . —
7F, c.l. (30 tons), mines ton.71.00 . —
7H, c.l. (30 tons), mines ton.61.00 . —
7K, c.l. (30 tons), mines ton.50.00 . —
7M, c.l. (30 tons), mines ton.44.00 . —
7R, c.l. (30 tons), mines ton.43.00 . —
7RF, c.l. (30 tons), mines ton.44.00 . —
7T, c.l. (30 tons), mines ton.41.00 . —
7TF, c.l. (30 tons), mines ton.44.00 . —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher.
Ascorbic acid, USP, dms., 100-kilos. kilo. 6.35 . —
dms., less than 100-kilos kilo. 6.60 . —
Ash, black (see Barium sulfide)
Asphalt, gilsonite, black jet, bgs., c.l., mines ton.43.00 . —
ex-whse, 5 tons or more, N. Y., N. J. ton.89.50 . —
select, brilliant black, 340°-360°F. fusing pt., bgs., c.l., mines. ton.46.00 . —
270°-295°F fusing pt., bgs., c.l., mines ton.43.00 . —
Petroleum, cut-back, tanks, tank-wagon, refy. gal. .09½- —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy. ton.21.00 . —
85-300 penetration, tanks, tank-wagon, refy. ton.20.00 . —

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Aspirin (see Acetylsalicylic Acid).
Atropine, NF, tins ..... oz. Nom.
Atropine sulfate, USP, bots, 10 oz. lots .. oz. 5.25 - —
Azelaic acid, bgs., c.l., dlvd. .... lb. .40 - —
bgs., ton lots, same basis ..... lb. .41 - —

B

Bacitracin, sterile, over 500,000,000 units 50,000 units. .90 - —
non-sterile, over 500,000,000 units, 50,000 units .65 - —
Balm of Gilead buds, dried, bgs lb. 1.25 - 1.35
Barberry root bark, bgs lb. 1.00 - 1.10
Barbital, NF, 100-lb. dms., f.o.b. works lb. 4.50 - —
Barbital sodium, NF, 100-lb. dms. lb. 4.75 - —
Barium carbonate, precip., bgs., c.l., works ton.111.50 - —
bgs., smaller lots, works ton.126.50 - —
Barium chlorate, dms., works lb. .32 - .41
Barium chloride anhyd., bgs., c.l., works ton.176.00 - —
bgs., t.c.l., works ton.196.00 - —
NF, cryst., dms., 400-lbs., works lb. .23 - —
Tech., cryst., bgs. c.l., works. 100 lbs. 7.00 - —
bgs., t.c.l., works .. 100 lbs. 8.00 - —
Barium chromate, bgs., frt. equald. lb. .38 - —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton.208.00 - —
bgs., t.c.l., t.l., frt equald ton.218.00 - —
Barium monohydrate, 99%, bgs., c.l., frt. equald 100 lbs.11.25 - —
bgs., t.c.l., frt. equald 100 lbs.11.75 - —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls., c.l., t.l., dlvd lb. .16 - —
bbls., t.c.l., t.l., dlvd. .... lb. .17 - —
Barium oxide, grd., dms., c.l., t.l., frt equald ton275.00 - —
dms., t.c.l., t.l., frt. equald ton.285.00 - —
Barium peroxide, dms., frt. equald, lb .20 - —
Barium stearate, ctns. c.l., frt. alld, lb. .41 - —
ctns., t.c.l. same basis ..... lb. .42 .46
Barium sulfate, tech. (see Barytes and blanc fixe).
Barium sulfate, X-ray, 100-lb. dm. lb. .19 - —
Barium sulfide, dms., c.l., works. ton.100.00 - —
dms., t.c.l., works ..... ton.110.00 - —
Barytes, southern, off-color, bgs. mines ton 30.00 - —
95-75%, bgs., mines ton.30.00 - —
white, water-grd., paper bgs., c.l., St. Louis ton.60.00 -60.25
paper bgs., ex whse., New York ton.84.85 - —
Battery acid, chys., c.l., works E. 100 lbs 2.35 - —
chys, t.c.l., works, E..... 100 lbs. 2.65 -10.95
Bauxite, bulk, mines ..... ton 7.00 -10.00
Bay oil, NF, Puerto Rican, 50-55% ctns. lb. 4.00 - —
55-60%, ctns. ..... lb. 4.00 - —
NF, West Indian, 50-55%, ctns. dms. lb. 4.25 - 4.50
Bayberry wax, bgs ..... lb. .65 - .70
Beeswax, crude, African, bgs... lb. .52 - .54
Brazilian, bgs. ..... lb. .56 - .57
Central American, bgs..... lb. .56 - .57
Chilean, bgs. ..... lb. .57 Nom.
Refd., USP, bleached white, bricks 100-lb. ctns lb. .67 - .69
white, slabs, 100-lb. ctns . lb. .66 - .68
yellow, bricks, 100-lb. ctns lb .59 - .61
yellow, slabs, 100-lb. ctns lb. .58 - .60
Belladonna leaf, bls. ..... lb. .24 - .26
Belladonna root, bls ..... lb. .35 - .38
Bentonite, dom. 200 mesh, bgs., c.l., mines ton.14.00 - —
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.95.20 - —
bgs., 1-ton lots, ex whse ton.99.00 - —
Imp. Italian, white, low gel., bgs., 5-ton lots, ex whse ton.93.40 - —
bgs., 1-ton lots ex whse ton.97.16 - —
Benzal chloride cbys., works lb. .44 - —
Benzaldehyde, NF, dms..... lb. .74 - —
Tech., dms., c.l., t.l..... lb. .42 - —
dms., t.c.l. ..... lb. .44 - —
Benzene, pure or nitration, tanks, works:
Baton Rouge, La ..... gal. .34 - —
Bethlehem, Pa ..... gal. .34 - —
Birmingham district .. gal. .34 - —
Chicago district ..... gal. .34 - —
Cleveland district .... gal. .34 - —
Geneva, Utah ..... gal. .34 - —
Houston, Tex. ..... gal. .34 - .40
Johnstown, Pa. ..... gal. .34 - —
Lorain, Ohio ..... gal. .34 - —
Middletown, Ohio ..... gal. .34 - —
Mennequa, Colo. ... gal. .34 - —
Philadelphia district... gal. .34 - —
Pittsburgh district ... gal. .34 - —
Port Arthur, Tex. ... gal. .34 - —
St. Louis, Mo. District gal. .34 - —
Sparrows Point, Md. gal .34 - —
Syracuse, N. Y. ..... gal. .34 - —
Terre Haute, Ind..... gal. .34 - —
Youngstown, Ohio .... gal. .34 - —
Lackawanna, N. Y. ... gal. .34 - —
Lone Star, Tex .... gal. .34 - —
Benzene hexachloride, 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech., high gamma, bgs., c.l., t.l., consignment, dlvd. gamma-unit. .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works, gamma-unit. .0065- —
Tech., low gamma, bgs., c.l., t.l., consignment, dlvd gamma-unit. .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works, gamma-unit. .0056- —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis. lb. 1.19 - —
bbls., t.c.l., same basis ..... lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb. 1.21 - —
Benzidine yellow, AAA, bbls., dlvd. lb. 2.20 - —
AAOT, bbls., dlvd. ..... lb. 2.55 - —
Lightfast, bbls., dlvd. ..... lb. 3.40 - —
Benzocaine, dms., 100-lbs., frt. alld. lb. 3.25 - —
Benzoic acid, tech., dms., c.l., t.l., frt. alld lb. .25 - .37
dms., l.t.l., same basis..... lb. .29 - .41
tanks, same basis ..... lb. .21 - —
USP, bbls., dms., ton lots lb. .48 - —
bbls., dms., 1,000-lb lots lb. .50 - —

BENZOL
Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzoin gum, Sumatra, cs. ..... lb. .33 - —
Benzophenone, dms lb. 1.35 - 1.45
Benzotriazole, tech. dms., 1,000-lb lots, works lb. 1.95 - —
Benzotrichloride, cbys., 1,000-lb lots or more, frt. equald lb. .21 - —
cbys., smaller lots, frt. equald lb. .23 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
cbys., t.c.l., same basis lb .23 - —
tanktrucks, dlvd. Metropolitan area. lb. .21 - —

Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .54 - —
Benzyl alcohol, NF, dms. ..... lb. .54 - —
Tech., dms., dlvd. ..... lb. .47½- .65
Benzyl benzoate, USP, 40-lb. dms. lb. .62 - —
Benzyl chloride, tech., dms., c.l., f.o.b. frt. equald lb. .23 - —
dms., t.c.l., same basis ..... lb. .24 - —
tanktrucks, dlvd., Metropolitan area. lb. .21 - —
Benzyl cinnamate, cns..... lb. 3.80 - 4.00
N-Benzyl-N,N-dimethylamine, 50 dms., frt. alld lb. 1.25 - —
12-49 dms., same basis..... lb. 1.35 - —
1-11 dms., same basis..... lb. 1.90 - —
Benzyl formate, cns..... lb. 1.70 - 1.85
Benzyl isoeugenol, cns..... lb. 8.20 - 8.30
Benzyl propionate, bots..... lb. 1.30 - 1.35
Benzyl salicylate, bots ..... lb. 1.50 - 1.85
Benzylidine acetone, bots ..... lb. 1.65 - 1.75
Benzylidine chloride (see Benzal chloride).
Berberine bisulfate cns lb.56.50 - —
Berberine hydrochloride, bots lb.56.50 - —
Bergamot oil, nat., NF Italian, cns. lb.11.00 -12.00
Betagammapicoline (see b,g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betamethyinaphthalene (see Methyinaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphtholamine).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid).
Betaphenylethylamine (see n-Phenylethylamine)
BHC (see Benzene hexachloride tech.).
Biotin, cryst., bots gram.10.00 - —
Biphenyl (see Diphenyl).
Birchtar oil, crude, cns..... lb. 1.50 1.90
Rectified, cns. ..... lb 1.75 2.00

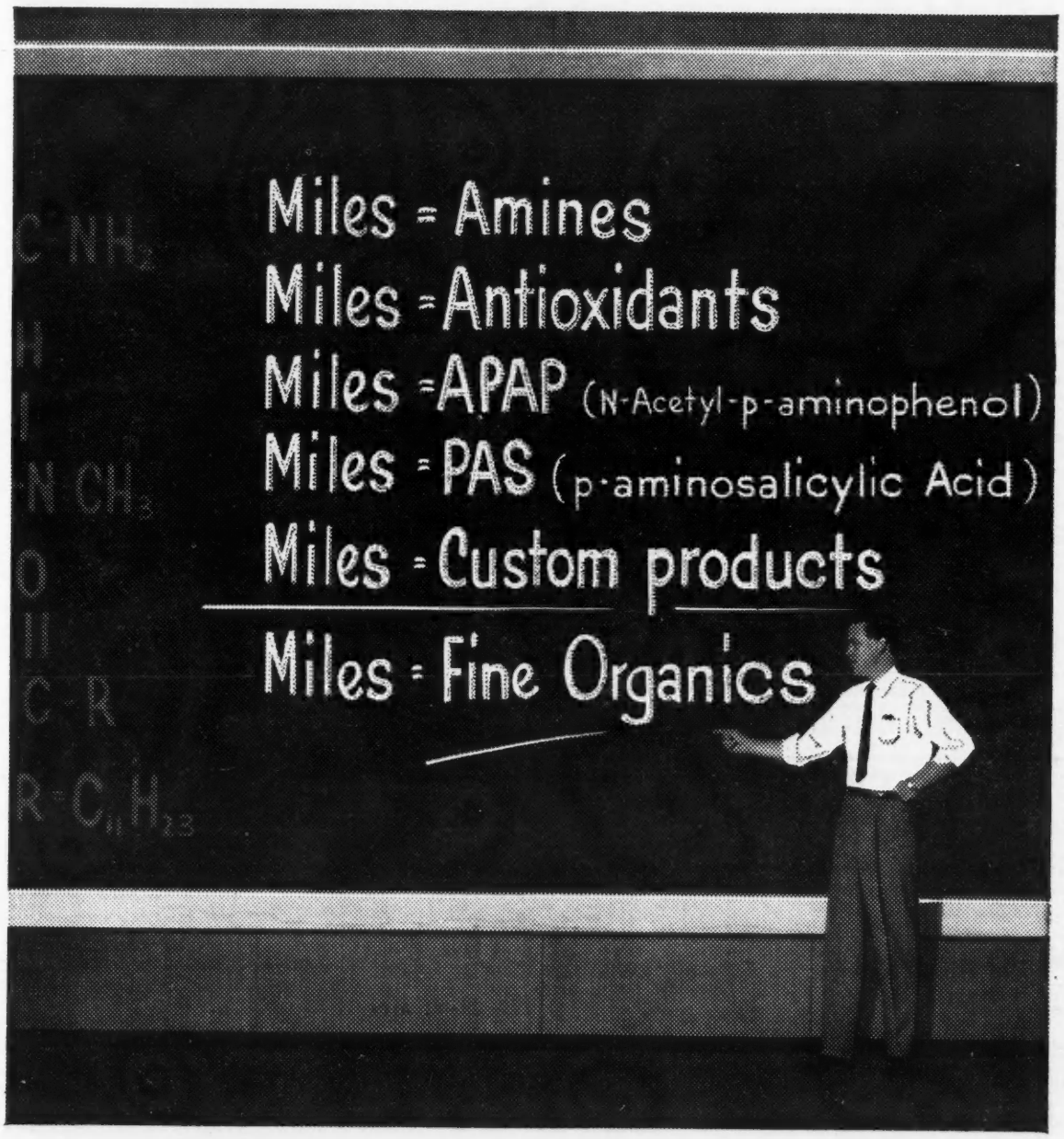
BLACK PIGMENTS
Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Bismuth chloride, jars ..... lb 5.11 - —
Bismuth hydroxide, dms..... lb 4.60 4.65
Bismuth metal, bxs, ton lots lb 2.25 - —
Bismuth nitrate, cryst., 200-lb. dm. lb. 2.25 - —
Bismuth oxychloride, 25-lb. dm., f.o.b. works lb. 4.92 - —
Bismuth subcarbonate, USP, 25-lb. dm., f.o.b., works lb. 3.70 - —
Bismuth subgallate, NF, 200-lb dm. f.o.b works lb 3.98 - —
Bismuth subiodide fib dms lb 5.37 - —
Bismuth subnitrate, NF, 200-lb dm., f.o.b., works lb. 3.10 - —
Bismuth subsalicylate, USP, 100-lb. dm., f.o.b works lb. 4.15 - —
Bismuth trioxide 100-lb. dms., f.o.b works lb. 4.40 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, bgs., c.l., t.l., single shipt., 70,000-lbs or more, frt. alld lb. .30½- —
bgs., c.l., t.l., less than 70,000-lbs., same basis. lb. .31 - —
bgs., t.c.l., same basis ..... lb. .32½- —
Blackberry root bark, bls..... lb. .50 .55

Blanc fixe, direct process, bgs., c.l. works ton 180.00 —
bgs., t.c.l., works ton 170.00 —
bgs., t.c.l., New York whse ton 21.00 —
Blood, dried 16-16½% ammonia, bgs. New York unit-ton 5.50 —
Bloodroot, bls lb .85 .90

BLUE PIGMENTS
Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes)
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms lb 2.05 —
Peruvian, dms. lb 1.65 —
BON acid, maroons, pure, bbls lb 1.75 —
Resinated, bbls lb 1.50 —
Bone black, dms., c.l., frt. alld lb .1750 .2225
t.c.l., works lb .1950 .2425
Pacific coast bone black prices 3¼c. per lb higher.
Bonemeal, steamed, works, E ton.100.00 - —
Bone phosphate, defluorinated, of lime (see Defluorinated phosphate).
Bone phosphate, precip (see Calcium phosphate, tribasic)
Borax, tech., anhyd., 99½%, bgs., c.l., works ton 92.00 - —
bgs., ton lots, ex whse, New York or Chicago. 100 lbs. 7.67 - —



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DIVISION OF MILES LABORATORIES, INC.
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35-60

Borax—Charcoal

Borax, tech., anhyd., 99½%, bgs., smaller lots, same basis. 100 lbs. 8.91 -10.91
bulk, c.l., works ton.83.00 - —
Tech., gran., decanydrate, 99½%, bgs., c.l., works ton.80.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 8.31 - —
bgs., smaller lots, same basis 100 lbs. 8.56 - 8.56
bulk, c.l., works ton.43.50 - —
Tech., pentahydrate, 99½%, bgs., c.l., works ton.64.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.13 - —
bgs., smaller lots, same basis 100 lbs. 7.37 - 9.37
bulk, c.l., works ton.58.00 - —
USP, powd., bgs., c.l., works. ton.54.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.57 - —
bgs., smaller lots, same basis. 100 lbs. 7.82 - 9.82
Bordeaux powder tribasic bgs., c.l., divd lb. .24 - —
bgs., l.c.l., same basis lb. .26 - —
Boric acid, tech., anhyd., 99.9%, bgs., c.l., works ton.335.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs.21.27 - —
bgs., smaller lots, same basis. 100 lbs.22.52 -24.52
cryst., 99.9% bgs., c.l., works. ton.163.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs.11.67 - —
bgs., smaller lots, same basis. 100 lbs.12.92 -14.92
Boric acid, tech., cryst., 99.9%, dms., c.l., works ton.188.50 - —
dms., ton lots, ex whse., New York or Chicago 100 lbs.13.17 - —
dms., smaller lots, same basis 100 lbs.14.42 - —
gran., 99.9%, bgs., c.l., works. ton.112.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 8.78 - —
bgs., smaller lots, same basis 100 lbs.10.03 -12.03
dms., c.l., works ton.137.00 - —
dms., ton lots, ex whse, New York or Chicago 100 lbs.10.29 - —
dms., smaller lots, same basis 100 lbs.11.54 - —
bulk, c.l., works ton.106.00 - —
powd., bgs., ton lots, ex whse., New York or Chicago 100 lbs. 9.20 - —
bgs., smaller lots, same basis 100 lbs.10.45 -12.45
dms., ton lots, ex whse., New York or Chicago 100 lbs.10.71 - —
dms., smaller lots, same basis 100 lbs.11.96 - —
USP boric acid $25 per ton higher in bags.
Borneol, cns. lb. 2.75 - —
Boron trichloride CP 1,800-lb. cyls., works lb 1.25 - —
100-lb. cyls. works lb 1.70 - —
Boron trifluoride gas, cyls., t.l., works lb. .70 - —
cyls., t.t.l. works lb. .70 - —
Brimstone (see Sulfur).
Broenner's acid bbls lb 1.53 - —
Bromine purif., c.l., t.l., divd. E of Rockies lb .32 - —
cs. l.c.l. same basis lb .34 - .39
ref. dms., c.l., t.l., divd. E. of Rockies lb. .31 - —
ref. dms. l.c.l., same basis lb .31 - .34
tanks, same basis lb. .21½ - —
Bromochloromethane dms. c.l., frt. equald lb .48 - —
dms., l.c.l., same basis lb .50 - —
tanks, same basis lb .47 - —
Bromoform, pharmaceutical grade, 5-gal. cby. frt. equald lb 1.95 - —
Bromstyrol bots lb 5.25 - 5.35
Brucine, cns. oz. 1.10 - —
Brucine sulfate, NF, cns. oz. .85 - —
Buchu leaves, bbls lb. .60 - .65

BROWN PIGMENTS

Brown pigment quotations are listed individually. For example prices on Brown iron oxide, may be found in the I's under Iron oxide brown.

Butadiene (etd cyls. c.l., refy lb .21 - —
cyls., l.c.l., refy lb .22 - —
tanks, divd lb .12¾ - —
Butene-1 tanks works lb .0625 - —
Butene-2 tanks works lb .0570 - —
n-Butyl acetate ferment, dms., c.l., frt. alld lb .17 - —
dms., l.c.l., same basis lb .18½ - —
tanks, same basis lb .14½ - —
Syn. dms c.l. divd. E lb .17 - —
dms., l.c.l. same basis lb .18½ - —
tanks, same basis lb .14½ - —
sec-Butyl acetate syn. dms., c.l., divd. E lb .14¾ - —
dms., l.c.l. same basis lb .16¼ - —
tanks, same basis lb .12¼ - —
n-Butyl acrylate, dms. c.l. or t.l., straight or mixed frt. alld. E lb .37½ - —
dms., l.t.l., same basis lb .38½ - —
tanks, same basis lo .35 - —
n-Butyl alcohol ferment, dms., c.l., frt. alld lb .18 - —
dms., l.c.l. frt. alld lb .19½ - —
tanks, frt. alld lb .15½ - —
Syn., dms., c.l., frt. alld lb .18 - —
dms., l.c.l., frt. alld lb .19½ - —
tanks, frt. alld lb .15½ - —
Sec-synthetic dms., c.l., divd lb .15 - —
dms., l.c.l., divd. lb .16½ - —
tanks divd lb .12½ - —
Tert-synthetic, dms., c.l., frt. alld., divd. E lb .16 - —
dms., l.c.l., same basis lb .17½ - —
tanks, same basis lb .13½ - —
Butyl aldehyde (see Butyraldehyde).
Butyl chloride dms., c.l., works lb .37½ - —
dms., l.c.l. works lb .38¼ - —
n-Butyl ether dms., c.l., works lb .35¼ - —
dms., l.c.l., works lb .36 - —
tanks, works lb .33¼ - —
Butyl lactate dms. c.l. frt. alld. E. Rockies lb .42½ - —
dms., l.c.l., same basis lb .43½ - —
tanks, same basis lb .40 - —
Butyl laurate dms. works lb .37½ - —
Butyl methacrylate dms., c.l., t.l., works lb .55 - —
dms. l.c.l. works lb .55½ - —
Butyl oleate refd. dms., l.c.l., works lb .32 - —
Butyl phenylacetate dms lb 4.50 - 4.60
Butyl phthalate (see Dibutyl phthalate).
Butyl stearate, CP, dms., l.c.l., frt. alld. E. of Rockies lb. .27¼ - .28½
tech., dms., c.l., same basis lb .25¾ - —
Butylamine (see Mono- Di and Tri- butylamine)
tert-Butylamine dms. c.l. t.l., t.o.b. works lb .47 - —
dms. l.c.l., same basis lb .47¼ - —
tc., t.t., same basis lb .45 - —
Butylated hydroxyanisole, food grade, dms divd. lb 4.75 - —
6-tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol).
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
1,3-Butylene glycol, dms., c.l., t.l., divd lb .20½ - —
dms., l.c.l., t.t.l., f.o.b. works lb .22 - —
tanks, divd. lb. .18 - —
p-tert-Butylphenol, bgs., c.l., frt. alld. lb .25½ - —
bgs., l.c.l., same basis lb .26½ - —
tanks, same basis lb .23½ - —
Butyraldehyde, dms., c.l., divd lb .22 - —
dms., l.c.l., divd. lb .23½ - —
tanks, divd. lb .19½ - —
Butyric acid, 99%, dms., c.l., frt. equald lb .34 - —
dms., l.c.l., same basis lb .34½ - —
tanks, same basis lb .32½ - —
Butyric ether (see Ethyl butyrate).
Butyrolactone, dms., c.l., t.l., works. lb .40 - —
dms., l.c.l., same basis lb .43 - —
n-Butyronitrile, dms., c.l., divd lb .56½ - —
dms., l.c.l., divd. lb. .57½ - —
tanks, divd. lb. .54 - —

C

Cacao butter (see Cocoa butter).
Cadmium CP red, dark shade, bbls., frt alld t. of Rockies lb 5.55 - —
Light shade bbls same basis lb 4.65 - —
Medium shade, bbls., same basis. lb. 5.30 - —
Medium, light shade, bbls., same basis. lb 4.90 - —
Orange-red shade, bbls same basis lb 4.30 - —
Yellow, all shades, bbls. frt alld E. of Rockies lb. 3.02 - —
Cadmium chloride, 400-lb dms., f.o.b. shipping point lb. 1.56½ - —
Cadmium sodide, 25-lb fib dms in bbls lb .75 - 1.00
Cadmium metal ingots or sticks, ton lots, cs. divd lb 1.60 - —
Cadmium nitrate, purif cryst. 400-lb. dms., less than 5,000 lbs. f.o.b shipping point. lb. .94 - —
400-lb. dms., 5,000 lbs. or more same basis lb. .90 - —
Cadmium-mercury lithopone orange, deep shade bbls frt alld E. of Rockies lb. 1.73 - —
Cadmium-mercury lithopone red, dark shade, bbls same Basis lb. 2.03 - —
Red, light shade bbls. same basis lb. 1.80 - —
Red, medium shade bbls. same basis lb. 1.95 - —
Red, medium light shade bbls same basis lb. 1.88 - —
Red, maroon shade bbls same basis lb. 2.11 - —
Cadmium-selenide lithopone maroon, bbls., frt alld E of Rockies lb. 2.84 - —
Orange, bbls., same basis lb. 1.66 - —
Cadmium-selenide lithopone red, orange-red shade bbls. same basis lb. 1.80 - —
Red, dark shade bbls. same basis lb. 2.64 - —
Red, light shade, bbls. same basis lb. 1.96 - —
Red, medium shade, bbls. same basis lb. 2.31 - —
Red, medium-light shade bbls same basis lb. 2.08 - —
Cadmium-selenide, lithopone, yellow all shades bbls frt alld E. of Rockies lb. 1.27 - —
Caffeine NF citrated dms 100-lb lots or more lb 2.70 - —
USP, syn., cryst., hydrous, dms., 100-lb. lots or more, frt. alld lb. 2.25 - —
hydrous, powd., 150-lb. dms., frt, alld lb. 2.25 - —
USP, syn., cryst., anhyd., powd., dms., 100-lb. lots or more, frt. alld lb. 2.40 - —
Cajuput oil, native, cns. lb 1.75 2.00
Redist. USP cns lb 1.90 2.10
Calamine USP dms. lb .34 - —
Calamus oil bots lb 12.00 -30.00
Calciferol, cryst., 10-kilo or more lots, works gram .54 - —
1-10 kilo lots gram .55 - —
Calciferol in edible oil (see Vitamin D).
Calcium p-aminosalicylate trihydrate fib dms., 100 lbs. or more frt adjusted lb 3.10 - —
Calcium bromide NF jars 100 lbs. or more lb 1.10 - —
Calcium carbide standard generator size, 600-lb dms. c.l., divd ton.140.00 - —
Calcium carbonate, nat., dry grd, air floated, 325 mesh, bgs. c.l. works ton.10.50 - —
Chalk, whiting, 325 mesh, bgs., c.l., works ton.32.00 -34.00
water-grd. ½ to 10 microns bgs., c.l. works ton.30.00 - —
10 to 20 microns bgs. c.l., works ton 17.00 -18.00
Precip., dense, bgs., c.l., works. ton.30.00 -36.50
bgs. c.l., works ton 45.00 53.50
medium bgs. c.l., works ton 38.00 - —
bgs. l.c.l. works ton 46.00 -53.00
Calcium carbonate, surface treated bgs. c.l., works ton.42.00 -44.00
bgs., l.c.l. works ton 57.00 59.00
ultrafine bgs. c.l., works ton 117.50 167.50
bgs l.c.l. works ton.137.50 -187.50
Calcium chloride conc flake or pellet 94-97% paper bgs., c.l. works, frt equald ton.39.30 - —
Flake, 77-80% paper bgs., c.l., works, frt equald ton.32.00 - —
Liquor 40% tanks frt equald ton 12.50 - —
Calcium chloride, powd., 77% min., paper bgs., c.l., works, frt. equald ton.38.00 - —
Purif. gran dms lb .27 - —
Calcium chloride solid, 73-75%, dms., c.l., frt. equald ton.30.50 - —
dms. l.c.l. works frt equald. ton.36.00 -73.00
USP gran. dms. lb .32 - —
Calcium chromate, bgs., divd lb .37 - —
Calcium cyclamate 100-lb dms lb 1.95 - —
Calcium gluconate, USP, AA grade, 100-lb dm. ton lb. 73½ - —
USP powd 100-lb dm. ton lb .66½ - —
Calcium hydride lump dms. works lb 2.20 3.00
Calcium hypochlorite, high test, gran. 45-lb. cs., divd E. of Rockies cs.27.50 - —
100-lb. dms., same basis dm.39.50 - —
Calcium hypophosphite dms. 1,000-lb lots lb 1.28 - —
Calcium iodide, 25-lb. jars, works lb 4.27 - —
Calcium lactate NF dms., f.o.b. works lb .43 .46
Calcium mandelate, USP, 150-lb. dm., works lb. 1.28 - —
Calcium naphthenate, liq., 4% Ca., drms., frt equald lb. .30 - —
Calcium pantothenate, USP, jars, 1 kilo or more kilo.35.00 - —
Calcium para-aminosalicylate (see Calcium p-aminosalicylate).
Calcium phenolsulfonate, dms lb. 1.24 - 1.25
Calcium phosphate, dibasic, USP, dihydrate, bgs., c.l., frt. equald 100 lbs. 8.25 - —
Calcium phosphate, dibasic, feed grade, 18½% P, bgs., c.l., t.l., Bonnie, Fla., frt. equald ton.81.00 - —
bgs. c.l., t.l., f.o.b. Texas City works ton 75.50 - —
bgs., l.c.l. ton.91.00 - —
Feed grade, 21% P., bgs., c.l., t.l., frt. equald ton.97.65 - —
bgs. l.c.l. frt equald ton.107.65 - —
Prices of calcium phosphate dibasic in bulk $3 per ton less than bgs. c.l. prices.
Monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 7.45 - —
bgs., smaller lots same basis. 100 lbs. 7.95 - —
Tribasic, NF, precip., bgs., c.l., works, frt. equald 100 lbs. 9.25 - —
bgs. l.c.l., frt. equald 100 lbs.10.00 - —
Calcium propionate, any quantity, dms., divd E. of Rockies. lb. .37 - —
Prices W. of Rockies 3c. per lb. more.
Calcium phytate bgs., 50 lbs. or more f.o.b. warehouse N.Y. lb. .39 - —
Calcium resinate, precip., dms., frt. alld., works lb. .45 - —
Calcium silicate hydrated, bgs., c.l., works lb. .06 - —
bgs., l.c.l., works lb. .06½ - —
Calcium silicate paint grade (see Wollastonite).
Calcium stearate, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Calomel NF mild, powd., dms., 100-lbs., f.o.b. works lb 4.32 - —
NF mild, precip., dms., 100-lbs., f.o.b works lb. 5.67 - —
Camphene 46° m.p., dms incl., c.l., works lb. .15 - —
dms. incl., l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .12½ - —
Camphene chlorinated, 67-69% (see Toxaphene)
Camphor, monobromated, NF, dms., kgs lb. 3.63 3.70
Camphor, syn. tech., 1 bbl. or more. lb. .45 - —
USP, gran., powd., bbls., 1,000-lb lots lb. .53 - —
bbls smaller lots lb. .54 - —
tablets, ctns., 1,000-lb. lots. lb. .80 - —
ctns., 500-lb. lots lb. .81 - —
ctns., smaller lots lb. .83 - —
Camphor oil, sassafrassy, dms. lb. .35 - .55
White, dms. lb. .26 .50
Cananga oil, native, cns. lb. 5.00 6.50
Rectified, cns. lb. 7.25 -10.00
Candelilla wax, crude, bgs. lb. .57 - .58
Refd., pure, bgs lb. .62 - .63
Powdered Candelilla wax 20 to 100 mesh, 8c higher.
Cantharides, Chinese, cs. lb. 1.00 - —
powd., bgs. lb. 1.15 - —
Russian bgs. lb. 2.00 2.15
powd., bgs. lb. 2.15 2.30
Caprie acid, dms lb. .27¼ - .29¾
tanks lb. .24¾ - —
Caprolactam monomer, bgs., c.l., t.l., f.o.b. works lb. .52 - —
bgs., l.c.l., t.t.l., same basis lb. .57 - —
tanks, same basis lb. .49 - —
Caprylic alcohol 85% dms., c.l., t.l., works lb. .19 - —
dms., t.t.l., same basis lb. .19½ - —
tanks, frt. equald. lb. .16½ - —
Sec. 92-99% dms. c.l., f.o.b. works lb. .22 - —
dms. l.c.l., f.o.b. works lb. .23 - —
tanks, f.o.b. works lb. .19½ - —
Caprylic acid, dms lb. .27¼ - .29¾
tanks lb. .24¾ - —
Capsicum (see Pepper red)
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin, NF, from dom. pepper, dms lb. 4.00 - —
NF, from African pepper, dms. lb. 4.50 - —
Caraway oil, NF, dms lb. 4.25 - 4.50
Caraway seed Danish, bgs. lb. .16 - —
Dutch, bgs. lb. .19 - —
Carbazole, 97%, bbls, ton lots, works lb. 1.05 - —
Carbon black, channel, rubber beads, bulk, c.l., works lb. .08 - —
bgs., c.l., works lb. .08½ - —
bgs., l.c.l., works lb. .16¼ - —
furnace, fast extruding, bgs., c.l., works lb. .08¾ - —
ctns, l.c.l., whse lb. .13½ - —
high abrasion, bulk, c.l., works. lb. .07¼ - —
bgs., c.l., works lb. .07¾ - —
bgs., l.c.l., divd. or whse lb. .14½ - —
high modulus, bgs., c.l., works lb. .08¼ - —
ctns., l.c.l., whse lb. .13 - —
semi-reinforcing, bgs., c.l., works. lb. .05¾ - —
bgs., ctns., l.c.l., whse lb. .12½ - —
pigment, high color beads, ctns., c.l., works lb. .78 - —
ctns., l.c.l., divd. or whse lb. .87 - —
medium color, uncompressed, bgs., c.l., works lb. .14 - —
bgs., l.c.l., divd. or whse lb. .22½ - —
Carbon dioxide, indust., wholesale, bulk, 30,000-2,999,999 lbs., divd. Metropolitan areas, E ton.60.00 -115.00
bulk, 3,000,000 lbs. or more, divd Metropolitan areas, E ton.55.00 - —
Solid, bulk, wholesale, works ton.85.00 - —
Carbon disulfide, 55-gal. dms., c.l., works, frt. equald to competitive points lb. .071 - —
55-gal. dms. l.c.l., same basis lb. .086 - .091
5-gal dms., 30 dms. to c.l., same basis lb. .131 - —
5-gal. dms., less than 30 dms., same basis lb. .161 - —
tanks, f.o.b. works lb. .0450 - —
Carbon tetrachloride, CP, consumers dms., c.l., frt. alld. lb. .12¾ - —
dms., l.c.l., frt. alld. lb. .15¼ - —
Tech. consumers dms., c.l., t.l., frt. alld lb. .11¾ - —
dms. l.c.l. t.t.l. frt. alld lb. .14¼ - —
tanks, frt alld lb. .10¾ - .11¼
Carboxymethyl cellulose (see CMC).
Carbromal NF dms., 100-lb lots, works lb. 4.00 - 4.25
dms. smaller lots, works lb. 4.10 - 4.75
Cardamom oil, NF, bots lb.40.00 -43.00
Cardamom seed, bleached "A" lb. 3.45 - —
Bleached "B" lb. 3.15 - —
Decorticated Alleppey, cs. lb. 2.70 - —
Guatemala, cs. lb. 2.10 - —
Green, Alleppey, bgs. lb. 2.10 - —
Ceylon, bgs. lb. 2.10 - —
Carmine No. 40, NF, bulk, 100-lb. lots or more, divd. lb.16.80 - —
bulk, smaller lots, divd. lb.16.90 -17.30
Carnauba wax, chalky, bgs., ton lots. lb. .63 Nom.
North Country, No. 2, crude, bgs., ton lots lb. .73 Nom.
refd., pure, ton lots lb. .76 - .77
North Country, No. 3, Ceara, crude, ton lots lb. .58 - .60
North Country, No. 3, Parnahyba, crude, ton lots lb. .60 - .62
No. 3, refd., pure, bgs., ton lots. lb. .66 - .68
No. 1, Ceara, yellow, bgs., ton lots. lb. .82 - .83
Parnahyba, yellow, bgs., ton lots. lb. .85 - .86
Powdered carnauba wax, 20 to 100 mesh 8c per lb higher
Carotene tech. 1,350,000 A units per gram tins, 5-10 kilo lots, divd gram. .20½ - —
in carrot oil, 5,600,000 to 8,000,000 A units per lb. dms., works million units. .13 - —
USP, microcrystalline in oil, 400,000 A units per gram., dms. divd million units. .144 - —
b-Carotene, in vegetable oil semi-solid suspension 400,000 A units per gram cns kilo.57.60 - —
b-Carotene, liquid in vegetable oil, 500,000 A units per gram cns kilo.72.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram cns kilo.240.00 - —
Carvol, bots. lb. 5.00 5.40
Cascara sagrada bark, bulk lb. .32 - —
Casein, dom. edible, acid precip., 30 mesh, bgs., 10,000-lb. lots or more, works lb. .58 - —
Casein, dom., edible, acid, precip., 80 mesh, bgs., 10,000-lb. lots or more, works lb. .64 - —
Imp., inedible acid-precip. grs., Argentine bgs., c.l., ex-dock Eastern seaports lb. .18½ - .18¾
Australian, bgs c.l same basis lb. .20 - —
New Zealand, same basis lb. .24 - .25
Cashewnut shell liquid, treated, dms. c.l., Newark, N.J lb. .24 - —
dms. ton lots, same basis lb. .25 - —
t.w., same basis lb. .22½ - —
Cassella acid, dms. frt alld., 100% basis lb 1.44 1.78
Cassia oil, redist., USP, cns. lb. 6.50 - 8.00
Cassia, Padang, "A," bls lb. .31 - —
"B," bls. lb. .30 - —
"C," bls. lb. .29 - —
Korintje "A," bls. lb. .31 - —
"B," bls. lb. .29 - —
"C," bls. lb. .27 - —
Castor oil, dom., blown, dms., c.l. lb. .2550 - —
dms. l.c.l lb. .2650 - —
dehydrated, bodied, dms., c.l. lb. .2700 - —
dms. l.c.l lb. .2850 - —
tanks lb. .2500 - —
dehydrated, unbodied, dms., c.l. lb. .2500 - —
dms., l.c.l. lb. .2660 - —
tanks lb. .2360 - —
hydrogenated, bgs., c.l. lb. .2475 - —
bgs., ton lots lb. .2875 - —
bgs., l.c.l., divd lb. .3075 - —
raw, No. 1, dms., c.l. lb. .2200 - —
dms., l.c.l. lb. .2300 - —
tanks lb. .2000 - —
No. 3, tech., dms., c.l. lb. .2125 - —
dms., c.l., lb. .2225 - —
tanks lb. .1925 - —
refd., deod., dms., cl. lb. .2650 - —
dms. l.c.l. lb. .2750 - —
tanks lb. .2450 - —
USP, dms., c.l. lb. .2350 - —
dms., l.c.l lb. .2450 - —
tanks lb. .2150 - —
Imported, No. 1, Braz., tanks lb. .17¾ - —
No. 3, tanks, same basis lb. .17¼ - —
Sulfonated, 50%, dms., works lb. .15 - .15½
75%, dms. works lb. .19 - .19½
Castor oil acids, dehydrated, dms. lb. .41¼ - .43¾
Split, dms. lb. .33¾ - .34¾
Castor pomace, bgs., c.l., works ton.35.00 - —
Castoreum nat., cns. lb 5.25 - —
Syn., cns. lb 9.00 - —
Catechol, CP, cryst., fib., dms., works lb 2.17½ - —
Resub., dms., works lb 4.29½ - —
Catnip leaves, Southern, bls. lb. Nominal
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic).
Cedarleaf oil, USP XIII cns., dms. bots lb. 4.00 - 5.00
Cedarwood oil, cns., dms. lb. 1.15 - 1.30
Celery seed oil lb.11.50 - —
Celery seed, French, bgs. lb. .36 - —
Indian, bgs. lb. .21 - —
Cellulose acetate, flake, powd., bgs., t.l., divd E lb. .36 - .81
Cellulose acetate-butyrate, powd., 17% butyryl content, bgs., divd E lb. .545 - .558
27% butyryl content, bgs. divd. E lb. .595 - .606
38% butyryl content, bgs., divd. E lb. .545 - .558
38% butyryl content, half-second, bgs., divd. E. lb. .545 - .555
50% butyryl content, bgs. divd. E lb. .595 - .606
Cellulose gum, methyl (see Methyl Cellulose)
Cellulose gum, pure, high vis., bgs., 23,000-lb. lots or more works, frt alld lb. .57 - —
bgs., smaller lots, same basis lb. .59 - —
standard, low or medium vis., bgs., c.l., t.l., frt. alld. E lb. .57 - —
standard, low or medium vis., bgs., ton, frt. alld. E lb. .59 - —
(Cellulose gum prices 1c. per lb. higher in west.)
Cerium hydrate 74% CeO, fib. dms., 100-lb. lots or more lb. 1.40 - —
77% CeO, fib. dms., 100-lb. lots or more lb. 1.74 - —
Cerium oxalate (see Rare earth oxalate)
Cerium oxide, optical grade, bgs., 50-lb lots or more, divd. lb. 1.85 - 1.90
bgs., smaller lots, divd. lb. 2.15 - —
Cetyl alcohol NF, fib cns., c.l., t.l., divd. E lb. .41½ - —
fib. cns., l.c.l., same basis lb. .43¼ - —
tanks, same basis lb. .39 - —
Extra, cns., c.l., t.l., divd. E lb. .48½ - —
fib. cns., l.c.l., same basis lb. .50½ - —
tanks, same basis lb. .46 - —
Chalk (see Calcium carbonate)
Chamomile flowers, Hungarian, lb. 1.00 - 1.25
Roman, cs. lb. 1.75 - 2.00
Chamomile oil, blue Hungarian, bots lb.350.00 - —
Charcoal, activated, NF, fib dms., c.l., works lb. .34 - —
fib. dms., 5-ton lots, works lb. .35 - .35½
fib dms., smaller lots, works lb. .36 - .39
Charcoal, black (see Charcoal, activated)
Charcoal, bone (see Bone black).

Charcoal, hardwood, lump, bulk, c.l., f.o.b. plant ton.55.00 • —
briquets, bulk, c.l., f.o.b. plant ton.80.00 • —
5-lb. paper bgs., c.l., same basis ton.106.00 • —
20-lb. paper bgs., c.l., f.o.b. plant, ton.90.00 • —
40-lb. paper bgs. c.l., same basis ton.86.00 • —
Chenopodium oil, NF, cns lb. 4.75 • 5.00
Chicago acid, paste, bbls., frt. alld. lb. 3.21 • —
Chinawood oil (see Tung oil).
Chloral, tech., 94% min., dms., c.l., works lb. .23 • —
dms., t.c.l., works lb. .24 • —
tanks, multiple units, 5 cars, dms., t.c.l., works lb. .21 • —
Chloral hydrate, USP, jars, 1,000-lb. lots lb. 1.00 • —
jars, 500-lb lots lb. 1.03 • —
jars, 100-lb. lots or less lb. 1.05 • —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 • —
dms., t.c.l., 5,000-10,000-lb. lots, frt alld lb. .66 • —
clarified, dms., c.l., frt. alld lb. .69 • —
dms., t.c.l., 5,000-10,000-lb. lots, frt. alld lb. .70 • —
Chlorinated paraffin, 40%., dms., c.l., frt. alld lb. .15 • —
dms., t.c.l., 10 dms. or more, same basis lb. .16 • —
70%, dms., c.l., same basis lb. .18½ • —
dms., t.c.l., 10 dms. or more, same basis lb. .19½ • —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 • —
ctns., t.c.l., works lb. .61 • —
125 cps. ctns., c.l., works lb. .70 • —
300 cps. ctns., c.l., works lb. .80 • —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .11 • —
cyls., t.c.l., Metropolitan area, same basis lb. .12½ • .13¾
tanks, single units, works, frt. equald 100 lbs. 3.25 • —
tanks, multiple units, 5 cars, works, frt. equald, same basis 100 lbs. 4.15 • —
tanks, multiple units, 4 cars, same basis 100 lbs. 4.35 • —
tanks, multiple units, 2 cars, same basis 100 lbs. 5.35 • 5.85
tanks, multiple units, 1 car, same basis 100 lbs. 6.25 • 7.25
Chloroacetic acid, mono, flake, 99%, purif., dms., c.l lb. .23½ • .25½
dms. t.c.l. lb. .24½ • —
tech., flake, 96-97%, dms., c.l., frt. equald lb. .19 • —
dms., t.c.l., frt. equald lb. .20 • —
3-Chloro-4-aminotoluene, tech., liq., dms., frt. alld lb. 1.03 • —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.38 • —
5-Chloro-2-aminotoluene, tech., liq., dms., frt. alld lb. .66 • —
m-Chloroaniline, dms., c.l., frt. alld. lb. .73 • —
dms., t.c.l., same basis lb. .77 • —
tanks, same basis lb. .73 • —
o-Chloroaniline, dms., c.l., frt. alld. lb. .52 • —
dms., t.c.l., same basis lb. .54 • —
tanks, same basis lb. .50 • —
p-Chloroaniline, dms., c.l., frt. alld. lb. .77 • —
dms., t.c.l., same basis lb. .79 • —
o-Chlorobenzaldehyde, dms., t.l., works lb. 1.05 • —
dms., t.t.l., same basis lb. 1.20 • —
p-Chlorobenzaldehyde, dms., t.c.l., works lb. 1.93 • —
o-Chlorobenzoic acid, fib. dms., t.l., works lb. 1.10 • —
fib. dms., smaller lots, works lb. 1.25 • —
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works. lb. 2.25 • —
fib. dms., less than 2,000-lbs., same basis lb. 2.30 • —
Chloroform, tech., dms., c.l., divd. E lb. .18 • —
dms., t.c.l., same basis lb. .19 • —
tanks, same basis lb. .17 • —
USP, dms., c.l., divd lb. .27 • —
dms., t.c.l., divd. lb. .30 • —
tanks, minimum 4,000 gals. divd. lb. .25 • —
1-Chloro-4-nitroaniline, paste, divd. E., 100% basis lb. .90 • —
Powd., divd. E., 100% basis lb. 1.00 • —
4-Chloro-3-nitroaniline, powd., divd. E lb. .86 • —
4-Chloro-2-nitrophenol, tech., paste, dms., frt. alld lb. .75 • —
4-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .99 • —
5-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .25 • —
o-Chlorophenol, dms., c.l., frt. equald lb. .37 • —
dms., t.c.l., same basis lb. .38 • —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 • —
dms., t.c.l., same basis lb. .38 • —
Chloropicrin, comi., cyls., 180 lbs., frt alld lb. 1.07 • —
cyls., 100 lbs., same basis lb. 1.08 • —
cyls., 50 lbs., same basis lb. 1.14 • —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465 • —
dms., t.c.l. frt. equald lb. .0515 • —
tanks, frt. equald lb. .0415 • —
Chlorosulfonic acid, in stainless steel dms. ½c. per lb higher
o-Chlorotoluene, tech., dms., t.l., works lb. .37 • —
dms., t.c.l., t.t.l., same basis lb. .38 • —
Choline bitartrate, 100-lb. dms., frt. equald lb. 1.25 • —
Choline chloride, 100-lb dms., frt. equald lb. 1.25 • —
Choline dihydrogen citrate, 100-lb. dms., frt. equald lb. 1.25 • —
Chrome green, CP, dark, light, medium blue content, 1-15%, bbls, divd E of Rockies. lb. .43 • —
blue content, 16-30%, bbls., same basis lb. .44 • —
41-45%, bbls., same basis. lb. .44 • —
blue content, 45-49%, bbls., same basis lb. .45 • —
reduced color 25%, bbls., same basis lb. .20 • —
Chrome green prices 1c. higher W. of Rockies.
Chrome orange, CP, bbls., divd. E of Rockies lb. .35 • —
Chrome orange prices 1c. higher W. of Rockies.
Chrome yellow, CP, bbls., divd. E. of Rockies lb. .35 • —
Chrome yellow price 1c. higher W. of Rockies.
Chromic acid, 99¾%, dms., c.l., works, frt. equald lb. .29½ • —
dms., t.c.l., divd. N. Y. Metropolitan area lb. .30 • .31
Chromic acid, NF (see Chromium trioxide).

Chromium acetate, soln., 7½%, dms., 500-2,000-lb. lots, works. lb. .10 • —
Chromium fluoride, bbls., works lb. .51 • .53
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld. lb. 1.20 • —
Pure, bgs., c.l., frt. alld lb. .44½ • —
bgs., t.c.l., same basis lb. .45¼ • —
Chromium trioxide, NF, bots lb. 1.15 • —
Cinchona bark, NF, red, broken, bgs lb. .25 • —
NF, yellow, broken, bgs lb. .35 • .40
Cinnamic acid, refd., bots lb. 2.50 3.50
Cinnamic alcohol, bots lb. 1.50 • 1.60
Cinnamic aldehyde, dms. lb. .80 • 1.00
Cinnamon, Ceylon, No. 2, bgs. lb. .53 • —
Ceylon, No. "0000," bgs. lb. .73 • —
Cinnamon bark oil, bots lb. 55.00 -74.00
Cinnamon leaf oil, crude, dms lb. 1.60 2.00
USP, (Cassia), cns., dms lb. 8.50 -13.50
Citral, CP, bots lb. 4.50 • 5.00
Extra, bots. lb. 3.60 5.00
Syn., dms. lb. 7.25 7.40
Citric acid, USP, anhyd., fine gran., bgs., dms., c.l lb. .29½ • .30
bgs., dms., 10,000-lb. lots, 1 shipt lb. .30 • .30½
bgs., dms., smaller lots lb. .30½ • .31
USP, hydrous, fine gran., bgs., dms., c.l lb. .27½ • .28½
bgs., dms., 10,000-lb. lots, 1 shipt lb. .28 • .28½
bgs., dms., smaller lots lb. .29 • .29½
Powdered citric acid ½c. per lb. higher.
Citronella oil, Ceylon, dms lb. 1.00 —
Java-type, dms. lb. 1.00 • 1.20
Citronellal, bots., dms. lb. 1.40 1.60
Citronellol, bots., dms. lb. 1.90 2.50
Synthetic, dms. lb. 1.70 • —
Civet, artif., bots lb. 13.75 -15.00
Nat., bots. oz. 6.50 -15.00

Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton.17.50 -21.50
crushed, shed moisture, bulk, c.l., Tenn. ton. 8.00 -11.25
imp., airfloated, bgs., c.l., Atl. port net-ton.43.00 -47.00
lump, bulk, Atl. port net-ton.31.50 -37.50
Clay, China, dom., dry-grd., airfloated, 99%, 325 mesh, Georgia, bgs., c.l., works. ton.11.00 -17.00
Georgia, bgs., t.c.l., works. ton.13.50 -22.50
Imp., white, lump, bulk, c.l., ex-dock, Philadelphia, Portland, Me. long-ton.23.00 -35.00
white, powd., bgs., c.l., ex dock. net-ton.50.00 . —
bgs., t.c.l., ex whse net-ton.60.00 -70.00
Cleaners naphtha, petroleum, 105°F Flash, tankcars, New Jersey and New York gal. 18 . —
Group 3 gal. .12375 • —
Houston, Texas gal. .145 • —
140°F Flash, tankcars, New Jersey or New York gal. .205 • —
Group 3 gal. .154 • —
Houston, Texas gal. .17 • —
Cleve's acid, tech., mixed, solid, dms., frt. alld lb. 1.05 • —
1,6, tech., solid, dms. frt. alld lb. .77 • —
1,7, tech., dms. frt. alld lb. 2.20 • —
Clove bud oil, USP, dms. lb. 2.65 • —
Cloves, Madagascar, bgs lb. .35 • —
Zanzibar, bgs. lb. .37 • —

Clove leaf oil, crude, dms lb. 1.10 • —
CMC, crude, 96.4% low or medium vis bgs., 23,000 lbs., dlvd. E., 100% basis lb. .40 • —
96.4% low, or medium vis., bgs., less than 23,000 lbs., dlvd. E., 100% basis lb. .42 • .45
65%, low or medium vis. bgs., c.l., dlvd. E., 100% basis lb. .40 • —
t.c.l., dlvd. E., 100% basis lb. .42 1.00
purif., high vis. (see Cellulose gum)
CMC prices W. of the Rockies are ½c. per lb. higher and are on a dlvd. basis.
Coaltar, crude, resale for soln., tanks, works gal. .17 • —
Refd., resale, indust., dms., c.l., ex whse gal. .33 • —
dms., t.c.l., ex whse gal. .39 • —
tanks works gal. .20½ • —
Coaltar pitch, aluminum, bulk, Works ton.42.00 • —
Carbon, bulk works ton.42.00 • —
Indust., bulk, works ton.44.00 • —
Core, bulk works ton.40.50 • —
Fiber, bulk works ton.48.00 • —
Roofing, 140-155°F., Federal Specification RP-381 Type I. tanks, works ton.41.00 • —
Cobalt acetate, 23.7% Co., dms., dlvd lb. 1.04 • —
Cobalt blue, genuine, 250 lb. bbls., dlvd. E of Rockies lb. 4.90 • —
Cobalt blue prices 1c. higher W. of Rockies.

battleground for enterics

Tablets coated with *Eastman C-A-P Cellulose Acetate Phthalate* can be counted upon to withstand erosion by gastric juices and stomach motion. The resistance is uniform and predictable. It does not depend on a time schedule because you cannot assume that everybody's stomach empties with clockwork precision.

But once the tablet advances to the small intestine, the coating releases the contents regardless of whether the territory is acid, alkaline, or neutral. Disintegration of the coating is prompt even at a pH as low as 6.8, uniquely triggered by the hydrolytic action of the intestinal esterases.

And the predictability of *C-A-P* operates in pan as well as man. Coatings deposit evenly, dry quickly. Properly applied, such coats are of controllable thickness, hard to damage in tumbling, smooth and glossy.

It behaves uniformly in plant, package, and people because we make it in its own special works, under a strict regime of chemical synthesis. It has proved itself more than a billion dosetimes.

Conceivably, a new coat of *Eastman C-A-P Cellulose Acetate Phthalate* could help you bring a new product out or an old one back. If you have any to talk over, tell us: ***Distillation Products Industries,*** Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies, Inc., West Coast • Charles Albert Smith Limited, Montreal and Toronto.

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DPi

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Distillation Products Industries *is a division of* **Eastman Kodak Company**

Cobalt Blue—Cyanamide

Cobalt blue (imitation (see Ultramarine blue)			
Cobalt carbonate, 46% Co., powd., bgs., dlvd	lb.	1.45	—
Cobalt chloride, 24.2% Co., dms., dlvd	lb.	.83	—
Cobalt hydrate, 60-61% Co., dms., dlvd	lb.	1.97	—
Cobalt linoleate, fused 8½% Co., dms	lb.	71½-	—
Liq., 6% Co., dms	lb.	.57½-	—
Cobalt metal, 99% dms., f.o.b carrier	lb	1.50	—
Cobalt naphthenate liq. 6% Co., dms. dlvd	lb.	.48¾-	—
Cobalt nitrate 20.1% Co. bbls. dlvd.	lb.	.75	—
Cobalt oxide, black, ceramic grade, 72½ 73½% Co., kgs., dlvd E of Mississippi R.	lb.	1.15	—
70-71% Co kgs. same basis	lb	1.12	—
Cobalt oxide prices W of Mississippi R. 3c. per pound higher			
Cobalt phosphate powd., 32.1% Co., dms., dlvd	lb.	1.38	—
Cobalt resinate, fused, 3% Co. dms	lb.	.36½-	—
Cobalt sulfate, cryst., 21% Co., dms., dlvd	lb.	.64	—
Monohydrated, 33% Co., dms., dlvd	lb	1.09	—
Cobalt tallate 8% Co., dms. dlvd.	lb.	.44	—
Cocaine, USP ens., 100-oz. lots, f.o.b works	oz.	17.50	—
Cocaine hydrochloride, ens., 100-oz. lots f.o.b. works	oz.	13.75	—
Cocillana bark, bls	lb.	.18	.20
Cocoa butter, bgs	lb.	.55	.60
Coconut oil, crude, tanks New York	lb.	12¾-	.13
tanks, Pac. coast	lb.	.11½-	—
Refd., deodorized, dms.	lb.	.19	.20
Coconut oils, acid, dist. dms.	lb.	.21½-	.24
tanks	lb.	.19	—
double dist. (stripped), dms.	lb.	22½-	.25
tanks	lb.	.20	—
Cod oil, dms., spot	lb.	.08¼-	.08½
Codeine, NF ens., 100-oz. lots	oz.	13.25	—
Codeine hydrochloride, ens., 100-oz. lots	oz.	11.75	—
Codeine phosphate, USP, ens., 100-oz. lots	oz.	10.25	—
Codeine sulfate, USP, ens., 100-oz. lots	oz.	10.75	—
Codliver oil, USP, dms	gal	1.40	1.70
Cohosh root, black, bls	lb.	.20	.25
Blue, bls	lb	.20	.25
Colchicine, USP, bots.		27.50	29.00
Colchicum root, bls	lb.	.35	.45
Colchicum seed, bgs.	lb.	.85	.90
Collodion, USP, dms.	lb.	.32½-	—
USP flexible dms.	lb.	.34	—
Colocynth pulp, bls.	lb.	.75	—
Colombo root, bls	lb.	.16	.18
Condurango bark, bls	lb.	.18	.20
Congo copal gum, No. 1, bgs	lb.	.26	.27
No. 2, bgs.	lb	.23	.25
No. 3, bgs.	lb.	.21	.24
Copaiba balsam, ens., dms.	lb.	.80	.90
Copaiba oil, ens.	lb.	1.35	2.00
Copper acetate, bbls., c.l., works	lb.	.53	—
bbls., l.c.l., works	lb.	.54	—
Copper carbonate, 55%, dark dense, c.l., works	lb.	.3545-	—
bgs., l.c.l., works	lb.	.3695-	—
Copper chloride, cupric, anhyd., dms., works	lb.	.44½-	.45
cryst., dihydrate, dms., works,	lb.	.30¾-	.31¼
cryst., dried, dms., works	lb.	.36¾-	.39¼
cuprous, dms., works	lb.	.3995-	.4295
Copper cyanide, tech., dms., 20,000-lb lots or more	lb.	.609	—
dms., 1,000-lb. lots or more	lb.	.619	—
dms., smaller lots	lb.	.639	.65
Copper gluconate, dms	lb.	3.20	—
Copper hydrate, dry, dms., c.l., frt. E. of Miss	lb.	.52½-	—
dms., l.c.l., same basis	lb.	.53	—
Copper metal, electrolytic, dlvd. Valley, basis	lb.	.31	—
Copper naphthenate, liq., 8% Cu, dms. frt alld	lb.	.36½-	—
Copper nitrate, tech., cryst., dms., works	lb.	.30¾	.32¾
Copper oleate, solid, 8% Cu, dms., works	lb.	.48	—
Copper oxide, black, bbls., 100-5,000-lb. lots, works	lb.	.47	—
red., 97%, USN Type 1, bbls., 100-5,000 lbs. lots	lb.	.47½-	—
90%, USN Type II, obls., 100-5,000-lb. lots or more, works	lb.	.43½-	—
Copper quinolinolate, 18% Cu, dms., ton lots	lb.	4.23	—
10% active quinolinolate dms	lb.	1.14	1.15
Copper resinate, precip., dms., frt. alld	lb.	.47	—
Copper sulfate, CP, gran., dms., works	lb.	.1888-	—
Cryst., 99%, bgs., c.l., works, 100 lbs.		12.50	—
bgs., l.c.l., works, 100 lbs.		13.00	13.50
Copper sulfate, monohydrated, 35%, dms., c.l., works, 100 lbs.		23.35	—
dms., l.c.l., works, 100 lbs.		24.10	—
Tribasic, distributors, 50-lb. bgs., c.l., works, 100 lbs.		28.60	—
bgs., l.c.l., works, 100 lbs.		30.10	—
Copper undecylenate, dms	lb	2.75	—
Copra, Atl., Gulf ports, c.i.f.	ton.	160.00	—
Pac. ports, c.i.f.	ton.	155.00	—
Coriander oil, USP, bots.	lb.	6.50	7.25
Coriander seed, Moroccan, bgs	lb.	.18	—
Rumanian, bgs.	lb.	.14	—
Yugoslavian, bgs.	lb.	.06½-	—
Corn oil, crude, tanks, works	lb.	.17½-	—
Foots, (soapstock acid 95%) tanks, New York	lb.	.07¼	Nom.
Refd., salad, dms.	lb.	.2325-	.2350
tanks	lb.	.2123-	—
Corn oil acids, dist., dms	lb.	.15½-	.18
tanks	lb.	.13	—
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min., 100 lbs.		7.30	—
paper bgs., l.c.l.	100 lbs.	7.45	—
Corn syrup, 43° Be., tanks, dlvd. N.Y.	100 lbs.	6.30	—
non-ret. dms., c.l., same basis,	100 lbs.	7.23	—
Corrosive sublimate (see Mercuric chloride).			
Cortisone acetate, USP, bots., kilo or more	gram.	.95	1.75
Costus oil, bots.	oz.	6.00	—
Cottonseed meal, 41%, bgs., Memphis	ton.	62.00	63.00
Cottonseed oil, crude, tanks, South, East	lb.	.13¼	Nom.
tanks, Valley	lb.	.13¾-	—
tanks, Texas, Waco	lb.	.13⅝-	—
Foots (soapstock, acid 95%), New York, tanks	lb.	.04½	Nom.
Refd., salad, dms.	lb.	.19¾-	.19¾
tanks	lb.	.17¾-	—
Cottonseed oil acids, dist., dms	lb.	.15½-	.18
tanks	lb.	.13	—
Coumarin, NF, cryst., dms.	lb.	3.20	3.30
Cramp bark, NF, bls.	lb.	.90	1.00
Cream of tartar (see Potassium bitartrate).			
Creosote carbonate, NF bots, cbys.,	lb.	3.05	3.20
Creosote, coaltar, crude, tanks, works, frt. adjusted	gal.	.24	—
Crude, soln 50%, tanks, works,	gal.	.226	—
Refd., dms., c.l., works	gal.	.50	—
dms., l.c.l., same basis	gal	62	—
tanks, same basis	gal	.38	—
West Coast creosote prices computed on a basis of 24c. per gallon for straight oil and 20c. per gallon for coaltar			
Creosote, beechwood, cbys., dms., f.o.b. works, dlvd. in Metropolitan area	lb.	1.72	1.77
Hardwood, NF cbys. dms. same basis	lb.	1.42	1.47
Pinewood, dms., incl. c.l., works,	lb.	.0611-	—
dms. incl., l.c.l., works	lb.	.0684-	—
dms. incl., l.c.l. ex whse, New York	lb.	.0795-	—
tanks, works	lb.	.0511-	—
Creosote oil (see Creosote coaltar).			
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld	lb.	.16½-	—
non-ret. dms., l.c.l., same basis	lb.	.17½-	—
tanks, same basis	lb.	.145	—
USP, 50% 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., same basis	lb.	.18	—
non-ret. dms. l.c.l., same basis,	lb.	.19	—
tanks, same basis	lb.	.16	—
m-Cresol, 95-98% dms., c.l., works,	lb.	.60	—
dms., l.c.l., works	lb.	.61	—
m-p-Cresol, 5-95% 3°C., dms., c.l., frt. equald	lb.	.18	—
dms., l.c.l., same basis	lb.	.19	—
tanks, same basis	lb	.16	—
2.97% 2°C, dms., c.l., frt. equald.	lb.	.22	—
dms., l.c.l., same basis	lb.	.23	—
tanks, same basis	lb.	.20	—
o-Cresol, 30.5°C. m.p and over, ret., dms., c.l., frt. equald	lb.	.17	—
ret. dms., l.c.l., same basis	lb.	.18	—
tanks, same basis	lb.	.15	—
30°-30.49°C. m.p., dms., c.l., frt. equald	lb.	.16½-	—
ret. dms., l.c.l., same basis	lb.	.17½-	—
tanks, same basis	lb.	.14½-	—
29°-29.9°C. m.p., dms., c.l., frt. equald	lb.	.16	—
ret. dms., l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.14	—
25°-28°C. m.p., dms. c.l., frt. equald	lb.	.15	—
ret. dms., l.c.l., same basis	lb.	.16	—
tanks, same basis	lb.	.13	—
p-Cresol, 98%, dms., c.l., dlvd	lb.	.52	—
dms., l.c.l., dlvd.	lb.	.53	—
tanks, dlvd.	lb.	.49	—
2,3-Cresotic acid, dms., ton lots, works	lb.	.70	—
dms., smaller lots, works	lb.	.72	—
p-Cresyl methyl ether, ens	lb.	1.80	2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt. equald	gal.	1.25	—
dms., t.c.l., same basis	gal.	1.40	—
tanks, same basis	gal.	1.15	—
metapara content 25% or less, dms., c.l., t.l., same basis	gal.	1.20	—
meta-para content 25% or less, dms., t.c.l., same basis	gal.	1.25	—
tanks, frt. equald	gal.	1.00	—
Imp., metapara content 25% or less, f.o.b. works, frt. equald. to competitive points, c.l.	gal.	1.03¼-	1.19
t.c.l., f.o.b., works	gal.	1.05	1.20
tanks, same basis	gal.	1.00	—
Crotonaldehyde, 91-93%, dms., t.c.l., works	lb.	.35	—
Crotonic acid, 200-lb. dms., c.l., dlvd.	lb.	.49	—
dms., l.c.l., dlvd	lb.	.51	—
Cryonte, nat., indust., bgs., c.l., works, 100 lbs.		13.00	—
bgs., l.c.l. works, 100 lbs.		14.25	—
Cube root, powd., 5% rotenone, bgs., t.l., works	lb.	.21	—
bgs. t.t.l., works	lb	.22	—
Cubeb berries, NF, bgs.	lb.	1.30	—
Powd., cs.	lb.	1.45	—
Cubeb oil, ens	lb.	8.75	9.00
Cumene, dms., c.l., works	lb.	.13	—
dms., l.c.l., works	lb.	.14	—
tanks, works	lb.	.11	—
Cumin seed, Iranian, bgs.	lb.	.19	—
Moroccan, bgs.	lb.	.36	—
Turkish, bgs.	lb	18	—
Cumin seed oil, bots., ens	lb.	15.50	17.00
Cyanamide, fertilizer, mixing grade, 21% N, gran., bgs., Niagara Falls, Ont., contract	ton	37.00	—
pulv., 21% N, bgs., works,	unit-ton.	2.88	—

MONTROSE

CHEMICAL COMPANY

100 LISTER AVENUE
NEWARK, NEW JERSEY

Dimethyl Isophthalate

T.C.P.— Tricresyl Phosphate

Cresyl Diphenyl Phosphate

D.D.T.— Dichloro Diphenyl Trichloroethane

Ethyl Silicate 28%—40%

Triphenyl Phosphate

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Cyanamide, indust. grade, bgs., c.l., works..ton.75.00 - —
bgs., l.c.l., works .....ton.86.00 - —
Indust. grade, 8-16 mesh, dms., c.l., works ton.120.00 - —
dms., l.c.l., works .. ton.140.00 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. E of Rockies gal. 1.02 - —
dms., l.c.l., same basis ..gal. 1.10 - —
dms., c.l., dlvd. W of Rockies gal. .77 - —
dms., l.c.l., same basis gal. .85 - —
tanks, works ..... gal. .55 - —
99%, tech. 40-dm. lots or more, f.o.b works gal. .56 - —
5-39 dms. same basis .. gal. .60 - —
tanks, same basis ..... gal. .36 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E lb. .30½- —
dms., l.c.l. works, same basis. lb. .31½- —
tanks, works, same basis....lb. .28 - —
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
dms., l.c.l. works ..... lb. .34½- —
tanks, works lb. .31 - —
Cyclohexylamine, tech., dms., c.l., works lb. .49 - —
dms., l.c.l., works..... lb. .50 - —
tanks, works .....lb. .47 - —
Cypress oil, bots.....lb. 5.35 - —

D

2,4-D, tech., bgs., dms., c.l., works, frt. equald lb. .40 - —
bgs., dms. l.c.l., same basis lb. .45 - .49
2,4-D butyl ester, dms. c.l., works. lb. .43 - —
dms., l.c.l., same basis.....lb. .48 - .52
tanks, same basis.....lb. .42 - —

2,4-D isopropyl ester, dms., c.l., works lb. .43 - —
dms., l.c.l., works.....lb. .48 - .53
tanks, works .....lb. .42 - —
Dammar gum, Batavia, A/E, cs lb. No stocks.
East India, Batu, bold, bgs lb. .15½- .18
nubs and chips, bgs.....lb. .10 - .11
black, bold, bgs .....lb. .16 - .16
nubs and chips, bgs.....lb. .13 - .14½
unscraped, bgs. .....lb. .13 - .14½
pale, chips, bgs.....lb. .16 - .18
pale, nubs, bgs. .....lb. .20¾- .24
Siam, cs. .....lb. .31½- .34
Singapore, No. 1, bgs. .....lb. .38 - .44
No 2, bgs. .....lb. .29 - .32
dust, bgs. .....lb. .18 - .20
No. 3, bgs. .....lb. No stocks.
Dandelion root, bls.....lb. .35 - .40
DDD, tech., flake, grd., fib. dms., c.l., works lb. .45 - .47
fib. dms., l.c.l., works lb. .46 - .48
DDT, flake or lump, bgs., c.l., dlvd..lb. .21 - —
bgs., smaller lots, same basis. lb. .23 - —
fib. dms., c.l., same basis... lb. .22 - —
fib. dms., smaller lots, same basis..lb. .25 - —
Powdered DDT 1c. per pound higher.
DDVP (see Dimethyl dichlorovinyl phosphate).
i-Decanol, tech., dms., c.l., dlvd. E. lb. .43½- —
dms., l.c.l., dlvd. E. ..... lb. .45½- —
tanks, dlvd. E. ..... lb. .41 - —
Decyl alcohol, mixed isomers, dms., c.l., dlvd. lb. .20½- —
dms., l.c.l., dlvd..... lb. .22 - —
tanks, dlvd. ..... lb. .18 - —
Perfume grade, bots. .....lb. 1.00 - 2.00

Decyl alcohol, normal (see i-Decanol)
Deertongue leaves, bls. .....lb. .80 - .80
Defluorinated phosphate, feed grade, 14% P, paper bgs., c.l., t.l., Tupelo, Miss ton.52.00 - —
18% P, paper bgs., c.l., Plant City, Fla ton.61.25 - —
paper bags, c.l., works, Wales, Tenn..ton.66.00 - —
19% P, paper bgs., c.l., t.l., works, Houston, Tex. ton.69.35 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices.
Degras, common (15-17% free fatty acid), 400-lb. drms lb. .12 - .14
Neutral (over 2% free fatty acid), 400-lb. drms lb. 13 - —
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E of Rockies, gal. .69½- —
dms., l.c.l., same basis .. gal. .74½- .80½
tanks, dlvd., same basis gal. .53½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .72 —
dms., l.c.l., same basis .... gal. .77 .83
tanks, same basis ..... gal. .56 —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.

Denatured alcohol, ethyl, SD1, dms., dlvd E of Rockies gal. 70½ —
dms. l.c.l. same basis gal. 75½ 81½
tanks, same basis gal. .54½- —
SD2B, dms. c.l. dlvd E of Rockies gal. .69 —
dms., l.c.l., same basis....gal. .74 - .80
tanks, same basis ..... gal. .53 - —
SD3A, dms. c.l. dlvd E of Rockies gal. .68 —
dms. l.c.l same basis gal. .73 .79
tanks, same basis..... gal. .52 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. 70½ —
dms., l.c.l., same basis gal. 75½ 81½
tanks same basis gal. .54½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .71 —
dms., l.c.l., same basis gal. .76 .82
tanks, same basis gal. .55 —
SD29, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .80½
tanks, same basis ..... gal. .53½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 - —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis.....gal. .55 - —

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Eastman Aldehydes

acetaldehyde
pharmaceutical raw material
denaturant
chemical intermediate

crotonaldehyde
denaturant
chemical intermediate
specialty solvent

propionaldehyde
chemical intermediate
resin raw material
elastomer intermediate

n-butyraldehyde
chemical intermediate
plastic intermediate
pharmaceutical intermediate

isobutyraldehyde
pharmaceutical intermediate
resin raw material
chemical raw material

For properties and shipping information on these and other Eastman products, see Chemical Materials Catalog, page 363, or Chemical Week Buyers' Guide, page 107.

Re expense item: Excess Baggage Charge - $22.

"It just didn't occur to me when I filled it out, but I can see why the item raised eyebrows in the Accounting Department," said one of our Materials Handling Supervisors. "So, prompted by their *more details* memo, I resubmitted the expense account in question with a notation as follows:

"For a one-day round-trip service call the amount indicated would appear excessive as far as personal articles are concerned. Actually my suitcase was full of steel fittings...intended for use in unloading a 10,000 gallon tank car of acetaldehyde. Subject tank car was shipped to customer for October 9 arrival. On October 10 customer telephoned that at start of unloading operation considerable leakage occurred in discharge connections. While all tank car unloading connections were carefully checked before shipment, we felt it advisable to provide on-the-spot assistance, especially since 15 psi. inert gas pressurized unloading of acetaldehyde was a new procedure for this particular customer. As it turned out the leakage was not caused by faulty fittings, but improper hook-up which was quickly remedied, allowing discharge to proceed routinely. It was then necessary to bring back the extra fittings, thus incurring a double-up excess baggage weight charge, which accounts for the unusually high expense item."

While this story indicates the eternal vigilance of our Accounting Department and their constant effort to control the cost of doing business, we think it serves to illustrate a more important point. That is, the cost of the trip itself was *not* questioned...because it came under the heading of *customer service.*

Eastman CHEMICAL PRODUCTS, INC., KINGSPORT, TENNESSEE, Subsidiary of Eastman Kodak Company

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tennessee, Atlanta, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Dallas, Greensboro, North Carolina, Houston, Kansas City, Missouri, New York City, Philadelphia, St. Louis
Western Sales Representative: Wilson & Geo. Meyer & Company, San Francisco, Los Angeles, Portland, Salt Lake City, Seattle

Denatured Alcohol—Ethyl Acetate

Denatured alcohol, ethyl, SD-40, dms., divd. E. of Rockies, gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
For anhyd. alcohol on above formulas prices are 7c. per gal. higher.
West coast divd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.
d-Desoxyephedrine hydrochloride, dms lb. 15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms lb 6.60 - —
Dextrin, corn gum, paper bgs., c.l., 100 lbs. 9.39 - —
paper bgs., l.c.l. 100 lbs. 9.54 - —
canary dark, paper bgs., c.l. 100 lbs. 9.23 - —
paper bgs., l.c.l. 100 lbs. 9.38 - —
Indust. grade, 6-16 mesh, canary light, paper bgs., c.l. 100 lbs. 9.13 - —
paper bgs., l.c.l. 100 lbs. 9.28 - —
white paper bgs., c.l. 100 lbs. 8.97 - —
paper bgs., l.c.l. 100 lbs. 9.12 - —
Corn dextrin in cottop bgs. 15c. per 100 lbs higher
Dextrose, anhyd., coml., bgs., c.l. 100 lbs 8.65 - —
bgs., l.c.l. 100 lbs 8.80 - —
Anhyd., special, aluminum foil lined fib. dms., 200-lb. dms 100 lbs. 14.70 - —
100-lb. dms. 100 lbs. 15.20 - —
Hydrated, coml., bgs., c.l., ex whse 100 lbs. 7.45 - —
bgs., c.l., ex whse 100 lbs. 7.60 - —
USP dms lb. .19¾- —
Diacetone alcohol, acetone-free, dms., c.l., divd lb. .15½- —
dms., l.c.l., divd. lb. .17 - —
tanks, divd lb. .13 - —
Tech., dms., c.l., divd. lb. .15 - —
dms., l.c.l., divd. lb. .16½- —
tanks, divd lb. .12½- —
Diacetyl, flavor grade, bots. lb. 3.30 4.30
Di-sec-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Diallylamine, dms., c.l., divd. lb. .98½- —
dms., l.c.l., divd. lb 1.00 - —
tanks, divd lb. .96 - —
o-Dianisidine, dry, tech., fib. dms. lb 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .93 - —
dms., l.c.l., same basis lb. .94 - —
tanks, same basis lb. .91 - —
Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
2,6-Di-tert-butyl-p-cresol, feed grade, c.l., t.l., dms., divd. lb. .65 - —
t.t.l., dms., same basis lb. .68 - —
Food grade, c.l., t.l., dms., divd. lb. .65 - —
dms., t.t.l., same basis lb. .68 - 1.10
Tech., dms., c.l., t.l., divd. lb. .57 - —
dms., l.c.l., same basis lb. .60 - —
tanks, same basis lb. .54 - —
Dibutyl fumarate, dms., c.l., t.l., divd. E lb. .31½- —
dms., l.c.l., t.t.l., divd. E lb. .33 - —
tanks, divd E lb. .29 - —
Dibutyl maleate, dms., c.l., t.l., divd. E lb. .31½- —
dms., l.c.l., t.t.l., divd. E lb. .33 - —
tanks, divd. E lb. .29 - —
Dibutyl phthalate, dms., c.l., divd. E lb. .31½- —
dms., l.c.l., same basis lb. .33 - —
tankcars, tanktrucks, 2,000 gals., same basis lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .29 - —
Dibutyl sebacate, dms., c.l., works. lb. .67½- —
dms., l.c.l., works lb. .68½- —
tanks, works lb. .65½- —
Dibutyl tartrate, dms., works, frt. alld lb. .65½- —
Dibutylamine, dms., c.l., divd lb. .55½- —
dms., l.c.l., same basis lb. .57 - —
tanks, same basis lb. .53 - —
Dicapryl phthalate, dms., c.l., divd. lb. .28½- —
dms., l.c.l., divd. lb. .30 - —
tanks, divd. lb. .26 - —
Dicapryl sebacate, dms., c.l., works. lb. .63 - —
dms., l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
3,4-Dichloroaniline, tech., solid, tanks, frt. alld lb. .73 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¾- —
dms., l.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11 - —
p-Dichlorobenzene, dms., c.l., f.o.b. works, frt. alld. E lb. .12 - —
dms, 2,000 lbs. or more same basis lb. .14½- —
1,4-Dichlorobutane, dms., c.l., or t.l., works lb. .33½- —
dms., l.c.l., or t.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, dms., c.l., t.l., divd. E lb. .15½- —
dms., l.c.l., t.t.l., same basis lb. .17 - —
tanks, same basis lb. .13 - —
Dichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
dms., l.c.l., works lb. .06 - —
tanks, works lb. .03 - —
Dichlorophenoxyacetic acid (see 2,4-D).
Dicyclohexylamine, dms., c.l., works. lb. .54 - —
dms., l.c.l., works lb. .55 - —
tanks, works lb. .52 - —
Dicyclohexyl phthalate, gran., fib. dms., c.l., works frt alld. lb. .49½- —
fib. dms., l.c.l., same basis lb. .51½- —
Dicyclopentadiene, dms., c.l., t.o.b. works lb. .14½- —
dms., l.c.l., same basis lb. .14¾- —
tanks, same basis lb. .12 - —
Didecyl phthalate, dms., c.l., works. lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tankcars, tanktrucks, 2,000 gals. lb. .25 - —
tanktrucks, 1,000-1,999 gals., same basis lb. 26½- —
Dieldrin, dms., c.l., divd. lb. 1.85 - —
dms., l.c.l., divd. lb. 1.90 - —
Diethanolamine, dms., c.l., divd E. lb. .27 - —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l., frt. alld lb. .27½- —
dms., l.c.l., frt. alld. lb. .28½- —
tanks, frt. alld. lb. .26½- —
Diethyl barbituric acid (see Barbital).
Diethyl carbonate, dms., c.l., t.o.b. works lb. .47½- —
dms., l.c.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Diethyl ethanolamines, dms., c.l., divd lb. .69½- —
dms., l.c.l., divd. lb. .71 - —
tanks, divd. lb. .67 - —
Diethyl oxalate, dms., c.l., f.o.b. works lb. .42½- —
dms., l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Diethyl phthalate, dms., c.l., divd. lb. .29¾- —
dms., l.c.l., divd. lb. .31¼- —
tanktrucks, 1,000-1,999 gals, same basis lb. .27¾- —
tankcars, tanktrucks, 2,000-lb lots, same basis lb. .27¼- —
Diethyl sulfate, dms, c.l., frt. alld. E. lb. .21 - —
dms., l.c.l., frt. alld. E lb. .22½- —
tanks, frt. alld. E lb. .18½- —
Diethyl thiourea, dms., c.l., t.l., works lb. .58 - —
dms., l.c.l., same basis lb. .59 - —
Diethyl toluamide, 90-95% meta isomer dms. c.l., t.l., works. lb 2.30 - —
5-44 dm. lots, works lb 2.35 - —
1-4 dm lots, works lb 2.40 - —
N,N-Diethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 - —
Diethylamine, dms., c.l., divd E lb. .52 - —
dms., l.c.l., same basis lb. .53½- —
tanks, same basis lb. .49½- —
N,N-Diethylaniline dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
Diethylbenzene, 380 lb. dms., c.l., t.l., frt alld., Zone 1 lb. .17½- —
f.o.b. Zone 2 lb. .18½- —
380-lb. dms., l.c.l., c.l., f.o.b. Zone 1 lb. .19½- —
f.o.b. warehouse points, Zone 2 lb. .20½- —
tankcars, Zone 1 lb. .15 - —
Zone 2 lb .16 - —
Zone 1 is East of the Rockies, Zone 2, West of the Rockies
Di-2-ethylhexyl adipate (see Di-octyl adipate).
Di-2-ethylhexyl phthalate (see Di-octyl phthalate), phthalate).
Diethylene glycol dms, c.l., divd E. lb. .17¾- —
dms., l.c.l., same basis lb. .19¼- —
tanks, same basis lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .55 - —
dms., l.c.l., works lb. .55¾- —
Diethylene glycol monobutyl ether, c.l., dms., frt. alld. E lb. .30¾- —
dms., l.c.l., frt. alld. E lb. .32¼- —
tanks, frt. alld. E lb. .28¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works lb. .30¾- —
dms., l.c.l., works lb. .31½- —
tanks, works lb. .28¾- —
Diethylene glycol monoethyl ether, dms., c.l., divd. E lb. .22½- —
dms., l.c.l., divd. E lb. .24 - —
tanks, divd E. lb. .20 - —
Diethylene glycol monoethyl ether acetate, dms., c.l., works. lb. .27¼- —
dms., l.c.l., works lb. .28 - —
tanks, works lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l., divd. E lb. .21 - —
dms., l.c.l., divd. E lb. .22½- —
tanks, divd. E. lb. .18½- —
Diethylenetriamine, dms., c.l., divd. E lb. .44 - —
dms., l.c.l., divd. E lb. .45½- —
tanks, divd. E lb. .41½- —
Diethylstilbesterol, USP, bots. 10-kilo lots kilo 100.00 147.50
bots. 1-kilo lot kilo 110.00 152.50
Digitalis leaves USP dom. dms lb 1.25 —
Digitoxin, USP, bots gram 3.75 4.20
Diglycol laurate, dms., ton lots lb. .32½- —
Diglycol stearate, dms., t.l. lb. .26 - —
Diglycolic acid, bgs., c.l., t.l., works. lb. .15½- —
bgs., l.c.l., works lb. .16 - —
Dihexyl sebacate, dms., c.l., works. lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks, works lb. .64 - —
Dihydrazine sulfate, dms., works lb. 1.10 1.25
Dihydrostreptomycin sulfate, bulk. gram .03 - —
1,2-Dihydroxy anthraquinone, dms., works lb. 3.45 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
Tech., dms., 20,000 lbs or more lb 1.11 - —
dms, 1,050 lbs to 20,000 lbs. lb 1.13 - —
dms, 150 lbs to 1,050 lbs lb 1.15 - —
Di-isobutyl ketone, dms., c.l., divd. lb. .17 - —
dms., l.c.l., divd. lb. .18½- —
tanks, divd lb. .14½- —
Di-isobutyl phthalate, dms., c.l., divd E. lb. .31½- —
dms., l.c.l., same basis lb. .32½- —
tanks, same basis lb. .29 - —
Di-isobutylene, dms, c.l., divd. E lb. .10 - —
dms, l.c.l., divd. E lb. .11½- —
tanks, divd E. lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., works lb. .29 - —
dms., l.c.l., same basis lb. .30½- —
tanktrucks, 1,000-1,999 gals., works lb. .27 - —
tankcars, tanktrucks, 2,000 gals., works lb. .26½- —
Di-iso-octyl sebacate, dms., c.l., works lb. .62 - —
dms., l.c.l., works lb. .61¼- —
tanks, works lb. .60 - —
Di-isopropanolamine, dms., c.l., divd. lb. .23¼- —
dms., l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .20¾- —
Di-isopropylamine dms., c.l., divd. E. of Rockies lb. .50½- —
dms., l.c.l., same basis lb. .52 - —
tanks, same basis lb. .48 - —
Dillweed oil, dom., bots., dms lb. 5.25 - —
Dimethyl anthranilate, cns. lb. 4.15 - —
Dimethyl dichlorovinyl phosphate, 55-gal dms., divd lb. 3.50 - —
Dimethyl ethanolamine, anhyd., dms., c.l., divd. E lb. .78 - —
dms., l.c.l., divd. E lb. .79½- —
tanks, divd E lb. .75½- —
Dimethyl ethanolamine, 70%, dms., c.l., divd., 100% basis, contained amines lb. .78 - —
dms., l.c.l., divd. 100% basis. lb. .79½- —
tanks, divd., 100% basis lb. .75½- —
Dimethyl hydroquinone dms. lb. 1.90 2.30
Dimethyl phthalate, dms., c.l., works lb. .29¾- —
dms., l.c.l., works lb. .31¼- —
tanktrucks, 1,000-1,999 gals., same basis lb. .27¾- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .27¼- —
Dimethyl sebacate, dms., c.l., works. lb. 1.30 - —
dms., l.c.l., works lb. 1.30½- 1.31
tanks, works lb. 1.28 - —
Dimethyl sulfate, ret. dms., c.l., works lb. .17½- —
ret. dms., l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Dimethyl sulfide, dms., c.l., works. lb. .17½- —
dms., l.c.l., works lb. .18½- .19½
tanks, works lb. .15 - —
Dimethyl sulfoxide, dms., c.l., f.o.b. works lb. .35 - —
dms., l.c.l., same basis lb. .37 - .38
tanks, same basis lb. .33 - —
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis lb. .38 - —
dms., l.c.l., frt. equald, 100% basis lb. .38½- —
tanks, frt. equald, 100% basis, lb. .28 - —
40% soln., dms., c.l., frt. equald., 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
lb. .28 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .28 - —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .26 - —
N,N-Dimethylformamide, dms., c.l., t.l., works lb. .32½- —
dms., l.c.l., works lb. .33 - .34
tanks, works lb. .30 - —
2,4-Dinitroaniline, dms., frt. alld lb. .75 - —
Dinitroaniline orange toner, CP, bbls., divd. E. of Rockies. lb. 1.61 - —
Dinitroaniline orange toner prices 1c. higher W of Rockies.
m-Dinitrobenzene, 89°C., dms. lb. .26 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E lb. .17¼- —
dms., l.c.l., frt. alld. E. lb. .17¾- —
tanks, frt. alld. E. lb. .17 - —
2,4-Dinitrophenol bbls. lb. .41 - —
2,4-Dinitrotoluene, oil, dms. lb. .11 - —
Refd., 63°C., dms. lb. .23 - —
Dioctyl adipate, dms., c.l., works lb. .38½- —
dms., l.c.l., works lb. .39½- —
tanks, works lb. .36 - —
Dioctyl phthalate, dms., c.l., frt. alld. E lb. .27 - —
dms., l.c.l., frt. alld. E lb. .29½- —
tanktrucks, 1,000-1,999 gals., same basis lb. .25 - —
tankcars, tanktrucks, 2,000 gals., same basis lb. .24½- —
Dioctyl phthalate prices ¾c. higher in West.
Dioctyl sebacate, dms., c.l., works. lb. .61¼- —
dms., l.c.l., works lb. .62¼- —
dms., l.c.l., works lb. .62¼ —
tanks, works, divd. lb. .59¼- —
1,4-Dioxane, dms., c.l., frt. alld. E. lb. .31½- —
dms., l.c.l., frt. alld. E lb. .33 - —
tanks, frt. alld. E lb. .29 - —
Prices in the west are 2c. per lb. higher.
Dipentaerythritol, bgs. c.l., t.l., divd. E lb. .34 - —
bgs., l.c.l., t.t.l., divd. E lb. .35 - —
Dipentene, dest.-dist., dms., c.l., works gal. .58 - —
dms., l.c.l., works lb. .62 - —
dms., l.c.l. ex whse. gal. .78 - —
tankscars, works gal. .41 - —
Steam dist., dms. c.l., works, South gal. .72 - —
dms., l.c.l., divd. New York gal. .91 - —
tanks, works, South lb .55 - —
Dip oil (see Tar acid oil).
Diphenolic acid, 1,000-lb. or more, bgs., works lb. .75 - —
Diphenolic polyether acids, 1,000-lb. or more, bgs., works lb. 1.00 - —
Diphenyl, bgs., c.l., t.l., works lb. .16¾- —
bgs., l.c.l., works lb. .18½- —
tanks, works lb. .15¾- —
Diphenyl oxide, perfume grade, cns. lb. .55 - .70
Diphenyl phthalate, dms., c.l., works. lb. .52 - —
dms., l.c.l., works lb. .54 - —
Diphenylamine, retd., flake, bgs., c.l., works, frt. equald lb. .32 - —
bgs., l.c.l., same basis lb. .34 - —
Refd., fused, tanks, same basis lb. .29 - —
Refd., diphenylamine in dms., ½c. per lb higher
Diphenylguanadine, bgs., dms., ton lots, frt. alld. lb. .51 - —
bgs., smaller lots, frt. alld. lb. .52 - —
Diphenylhydantoin-sodium, USP, dms lb. 5.00 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17 - —
dms., l.c.l. frt. alld. lb. .18½- —
tanks, frt alld lb. .14¼- —
Dipropylene glycol prices 1c. higher in West.
Dipropylene glycol methyl ether, dms., c.l., divd. E lb. .20 - —
dms., l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works lb. 1.80 - —
Di-o-tolylguanidine, dms., ton lots, frt. alld lb. .71 - —
dms., smaller lots, frt. alld lb. .72 - —
Di-o-tolylthiourea, tech., solid, dms., c.l., t.l., frt. alld lb. .58 - —
Divinylbenzene, 20-25%, dms., c.l., works, frt equald lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
50-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis. lb. 1.05 - —
tanks, same basis lb. .90 - —
Dodecenyl succinic anhydride, dms., c.l., t.l., divd. E lb. .50 - —
dms, l.c.l., t.t.l., same basis lb. .52 - —
Dodecylbenzene, dms., c.l., t.o.b., works, frt equald lb. .134 - —
dms., l.c.l., same basis lb. .144 - —
tanks, same basis lb. .11 - —
Dodecylphenol, c.l., frt. alld. lb. .22½- —
dms., l.c.l., same basis lb. .23½- —
tanks, same basis lb. .20 - —
Dodecylphenol prices on shipments to Western States are 2c. per pound higher.
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, divd.:
Blue, FD&C, No. 1 lb. 15.65 -17.60
No. 2 lb. 15.65 -17.60
Green, FD&C, No. 1 lb. 15.65 -17.60
No. 2 lb. 19.60 -22.85
No. 3 lb. 31.30 -35.90
Red, FD&C, No. 2 lb. 3.30 - 4.10
No. 3 lb. 19.60 -22.85
No. 4 lb 5.55 - 7.50
Dyes, coaltar, certified colors for drugs and cosmetics 500-lb and 1-lb. lots, divd:
Yellow, FD&C, No. 5 lb. 3.30 - 4.10
No. 6 lb. 3.30 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200-lb. and 1-lb. lots, divd.:
Black, D&C, No. 1 lb. 10.50 -10.98
Brown, D&C, No. 1 lb. 15.65 -16.10
Green, D&C, No. 5 lb. 15.65 -16.10
No. 6 lb. 15.65 -16.10
No. 7 lb. 14.35 -14.80
Orange, D&C, No. 3 lb. 10.50 -10.95
No. 4 lb. 19.60 -20.05
No. 5 lb 3.80 - 4.25
Red, D&C, No. 17 lb. 10.50 -10.95
No. 18 lb. 23.60 -24.00
No. 19 lb. 15.00 -15.45
No. 21 lb 3.90 - 4.35
No. 22 lb. 10.50 -10.95
No. 28 lb. 24.15 -24.65
No 33 lb. 17.00 -17.45
Violet, D&C, No. 2 lb. 15.65 -16.10
Yellow, D&C, No. 7 lb. 10.50 -10.95
No 8 lb. 10.50 -10.95
No. 10 lb. 13.05 -13.50
No 11 lb. 13.05 -13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots, divd.:
Blue, Ext., D&C, No. 1 lb. 15.65 -16.10
Green, Ext. D&C, No. 1 lb. 15.65 -16.10
Red, Ext., D&C, No. 1 lb. 13.05 -13.50
Yellow, Ext. D&C, No. 1 lb 10.50 10.95
Dyes, coaltar for general use in cloth dyeing (numbers are those of the Color Index scale or prototype), contract divd No.
11110 Brilliant scarlet BN lb 1.79 - —
13390 Fast blue SR lb. 1.57 - —
14025 Yellow 2G lb. 1.26 - —
14030 Orange R, extra, conc. lb. 1.64 - —
14645 Chrome black T lb. .77 - —
14720 Rubine XX, conc lb. 1.76 - —
15510 Orange Y, extra conc. lb. .83 - —
15575 Orange RR lb. .99 - —
15620 Fast Red A, conc. lb. 1.77 - —
15705 Chrome blue black R, conc. lb. 1.12 - —
16150 Scarlet 2RL lb. 1.22 - —
16255 Brilliant scarlet 3RN, conc. lb. 1.26 - —
16230 Fast light, orange 2G lb. 1.39 - —
17580 Brown PG lb. 3.00 - —
18050 Phloxine 2G lb. 1.16 - —
18055 Fuchsine 6B lb. 1.55 - —
18965 Fast yellow 2G lb. 2.32 - —
19140 Yellow XX lb. 2.48 - —
19555 Yellow NN conc. lb. 3.67 - —
20170 Brown Y lb. 1.33 - —
20470 Blue black, extra, conc. lb. 1.44 - —
21010 Brown, RX, conc. lb. 1.42 - —
22240 Scarlet B lb. 2.81 - —
22310 Red FC lb. 1.57 - —
22311 Brown MCW lb. 1.59 - —
22610 Blue 2B, extra conc. lb. 1.51 - —
23500 Red 4BX, conc. lb. 1.80 - —
24410 Sky blue FF, extra, conc. lb. 1.95 - —
24895 Brilliant yellow, conc. lb. 3.27 - —
26360 Navy blue 3R, conc. lb. 1.84 - —
26695 Black F, conc. lb. 2.30 - —
26900 Milling Red 3R, conc lb. 2.24 - —
27075 Neutral black 2B, conc. lb. 2.75 - —
27720 Gray L. lb. 2.18 - —
29185 Fast scarlet 4BNC lb. 2.23 - —
30015 Diazo black VJ conc. lb. 2.48 - —
30045 Yellow brown K, extra lb. 1.45 - —
30235 Black EB, 200% lb. 1.33 - —
30295 Green BY conc. lb. 1.07 - —
35660 Brown B lb. 2.89 - —
37565 Naphthol SWF lb. 1.85 - —
40000 Yellow 2G lb. 1.44 - —
41000 Yellow OX lb. 2.45 - —
42000 Green V, crystals lb. 2.73 - —
42040 Brilliant green G crystals lb. 3.62 - —
42090 Blue EG lb. 1.85 - —
42100 Milling green 6B, conc. lb. 4.78 - —
42640 Violet 4BXN lb. 2.43 - —
43830 Brilliant blue, BBG lb. 2.44 - —
44045 Blue B, extra conc. lb. 3.61 - —
45170 Red BX lb. 4.76 - —
50415 Nigrosine SSJ lb. 1.03 - —
52015 Blue GXX lb. 2.54 - —
58005 Alizarin red SC lb. 3.64 - —
59700 Golden orange GFD, single paste lb. 2.70 - —
59710 Flaming orange 6RD double powder lb. 4.90 - —
59800 Dark blue BO, single paste. lb. 2.28 - —
59825 Jade green NC supra, double paste lb. 1.75 - —
61570 Alizarin green CG extra lb. 3.81 - —
63010 Alizarin blue SAPG lb 3.90 - —
63615 Alizarin blue black B lb. 3.26 - —
69825 Blue BLFD double paste lb. 2.76 - —
70800 Brown BR single paste lb 2.03 - —
Dyes, coaltar, oil-soluble, 100-lb drums, divd.
No.
12140 Oil scarlet BL lb. 1.87 - —
12055 Oil orange 7078 V lb. 1.38 - —
26120 Oil red N 1700 lb. 1.94 - —
42535B Methyl violet base lb. 1.88 - —
44045B Victoria blue base lb. 4.06 - —
50415B Oil black 8603 lb. .80 - —
61565 Alizarin cyanine green base. lb. 6.13 - —
Dyes, coaltar, spirit soluble, 100 lb. dms., divd., Black RB lb. 3.89 - —
Spirit brown GN lb. 5.30 - —
Spirit orange R conc. lb. 5.87 - —
Spirit red B conc. lb. 6.41 - —
Pr 517 Spirit yellow 2R conc lb 4.62 - —
Pr. 554 Spirit blue THN lb. 5.06 - —

E

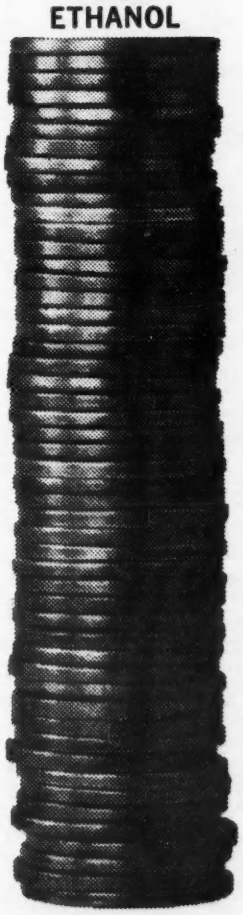
Echinacea root, bls. lb. 1.25 - —
Elm bark, grinding, bls. lb. .30 - .33
Powd., bbls., bxs lb. .60 - —
Select, bundles lb. 75 - —
Emetine hydrochloride, USP, bots oz. 48.40 - —
Endrin, tech., dms., 100-lbs. or more, 100% basis, divd. lb. 2.77 - —
Eosin red toner, bbls., works lb. 1.95 - —
Ephedrine, syn., USP, anhyd., bots. 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots. oz. .92 - —
Ephedrine hydrochloride, NF, dms., 100-oz., f.o.b. works oz. .75 - —
Ephedrine sulfate, USP, cryst., dms., 100-oz. f.o.b. works oz. .73 - —
USP, powd., dms., 100-oz., same basis oz. .73 - —
Epichlorohydrin, dms., c.l., divd. lb. .29½- —
dms., l.c.l., divd. lb. .31 - —
tanks, divd. lb. .27 - —
Epinephrine base, syn., USP, bots., 100 gram lots gram. .58 - —
Epsom salt (see Magnesium sulfate).
Erigeron oil, cns. lb. 11.00 - —
Ergot, NF, dms., tin-lined lb. 2.00 - 2.50
Eserine salicylate, bots. oz. 34.50 -40.00
Eserine sulfate, bots. oz. 26.00 - —
Ester gum, gum-rosin type, dms., c.l., divd., Ill., Md., Ky., E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .18½- —
Wood-rosin type, dms., c.l., same basis lb .18½- —
Ether (see specific product)
Ethyl acetate, nat., ferment, 85-88%, dms., c.l. divd lb .15 - —
dms., l.c.l., divd lb .16½- —
tanks divd lb .12½ - —
95-98% dms. c.l., divd. lb .15¼ - —
dms. l.c.l., divd lb 16¾ - —
tanks divd lb 12¾ - —
99%, dms., c.l., divd lb. .15½- —
dms. l.c.l., divd. lb 17 - —
tanks, divd. lb. .13 - —

Ethyl acetate, dyn., 95-98%, dms., c.l., dlvd. lb. .15 - —
dms., l.c.l., dlvd. lb. .16½- —
tanks, dlvd. lb. .12½- —
85-86%, dms., c.l., dlvd. lb. .15½- —
dms., l.c.l., dlvd. lb. .16½- —
tanks, dlvd. lb. .12½- —
dyn., 99%, dms., c.l., dlvd. lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks dlvd. lb. .13 - —
Ethyl acetoacetate, dms., c.l., dlvd. lb. 58½- —
dms., l.c.l., dlvd. lb. .60 - —
tanks, dlvd. lb. .56 - —
Ethyl acrylate, dms., c.l., t.l., dlvd. lb. .34¾- —
dms., l.t.l., dlvd lb. .35¾- —
tanks, dlvd. lb. .32¼- —
Ethyl alcohol, 190 pf., USP, tax paid dms, c.l., dlvd. E. of Rockies gal. 20.63 - —
dms., l.c.l., same basis gal. 20.73 -20.84
USP, tax-free, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .78 .89
tanks, same basis gal. .52 —
Ethyl alcohol, absolute, 200 pf., tax paid, dms., dlvd. E. of Rockies gal. 21.75 —
dms., l.c.l., same basis gal. 21.85 -21.96
tanks, same basis gal. 21.59 —
Ethyl alcohol, denatured (see Denatured alcohol, ethyl).
Ethyl aminobenzoate, USP (see Benzocaine).
Ethyl amyl ketone, dms., c.l., dlvd. lb. .20 - —
dms., l.c.l., same basis lb. .21½- —
tanks, same basis lb. 17½- —
Ethyl benzoate, bots. lb. .75 - 1.00
Ethyl bromide, tech., 98%, dms., c.l., frt. alld. E lb. .43 - —
dms., l.c.l., frt. alld. E lb. .45 - —
tanks, frt. alld. E lb. .40 - —
2-Ethyl butyl alcohol, dms., c.l., works lb. .30 - —
dms., l.c.l., works lb. .30¾- —
tanks, works lb. .28 - —
Ethyl butyl ketone, dms., c.l., t.l., works lb. .36 - —
dms., l.c.l., t.l., works lb. .36¾- —
tanks, works lb. .34 - —
Ethyl butyrate, dms., works lb. .85 - 1.00
Ethyl carbamate (see Urethane).
Ethyl cellulose, vis., 4 cps., ngs., 5,000 lb. lots or more, frt. alld. E lb. .73 - —
ngs., smaller lots, frt. alld. E lb. .75 - —
vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .68 - —
bgs., smaller lots, frt. alld. E. lb. .70 - —
Ethyl chloride, tech., cyls., works, lb. .20 .22
dms., works lb. .18 .20
tanks, works lb. .10 —
Ethyl cinnamate, cns. lb. 3.35 - 3.50
Ethyl ethanolamines, mixed, dms., c.l., dlvd. E lb. .43½- —
dms., l.c.l., dlvd. E lb. .44½- —
tanks, dlvd. E lb. .41½- —
Ethyl ether, absolute, ACS, dms. lb. .37 - —
Anesthesia, USP, dealers, 1-lb. cns lb. 1.01 - —
½-lb. cns. lb. 1.09 - —
¼-lb. cns. lb. 1.21 - —
Indust., dms., c.l., dlvd. lb. .13½- —
dms., l.c.l., dlvd. E. lb. .15 - —
tanks, dlvd. E lb. .11 - —
2-Ethyl hexoic acid, dms., c.l., t.l., dlvd. E lb. .37 - —
dms., l.c.l., t.l., dlvd. E lb. .38½- —
tanks, dlvd. E. lb. .34½- —
2-Ethyl hexoic acid 1c. higher W. of Rockies.
2-Ethylhexyl acrylate, dms., c.l., t.l., straight or mixed, frt. alld. E lb. .39½- —
dms., l.t.l., same basis lb. .40½- —
tanks, same basis lb. .37 - —
2-Ethylhexyl alcohol, dms., c.l., dlvd. E lb. .20½- —
dms., l.c.l., dlvd. E. lb. .22 - —
tanks, dlvd. E lb. .18 - —
Ethyl iodide, chys., works lb. 3.30 - —
Ethyl methacrylate, dms., c.l., frt. equald lb. .52 - —
dms., l.t.l., frt. equald lb. .52½- —
tanks, frt. equald lb. .50 - —
Ethyl morphine hydrochloride, USP, bots. oz. 11.85 —
Ethyl oenanthate, dms. lb. 1.05 1.30
Ethyl oxalate (see Diethyl oxalate).
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
Ethyl silicate, 40% available SiO2, dms., c.l., dlvd. E lb. .49 - —
dms., l.c.l., dlvd. E. lb. .50½- —
tanks, dlvd. E lb. .47 - —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.04 - —
N-Ethyl-m-toluidine, tech., liq., tanks frt. alld lb. .83 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono-, Di- or Tri-).
N-Ethylaniline, dms., c.l., frt. alld. lb. .57 - —
dms., l.c.l., frt. alld. lb. .58 - —
tanks, frt. alld. lb. .55 - —
Ethylbenzene, 99%, dms., c.l., t.l., frt. equald lb. .14 - —
dms., l.c.l., same basis lb. .16 - —
tanks, same basis lb. .11½- —
Ethylene, contract refy. gate lb. .0475- .052-
Ethylene dibromide, dms., c.l., frt. equald lb. .30½- —
dms., l.c.l., frt. equald lb. .31½- —
tanks, frt. equald lb. .28½- —
Ethylene dichloride, dms., c.l., dlvd. lb. .11½- —
dms., l.c.l., same basis cs. .13 —
tanks, same basis lb. .09 —
Ethylene dichloride prices W. of Rockies, 1c per lb higher
Ethylene glycol, indust., dms., c.l., dlvd. E lb. .16 —
dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .13½- —
Ethylene glycol monobutyl ether, dms., c.l., dlvd. E lb. .22 - —
dms., l.c.l., dlvd. E lb. .23½- —
tanks, dlvd. E lb. .19½- —
Ethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E lb. .22½- —
tanks, dlvd. E lb. .18½- —
Ethylene glycol monoethyl ether acetate, dms., c.l., dlvd. E lb. .19½- —
dms., l.c.l., dlvd. E lb. .21 - —
tanks, dlvd. E lb. .17 - —
Ethylene glycol monomethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E lb. .22½- —
tanks, dlvd. E lb. .18½- —
Ethylene glycol monomethyl ether acetate, dms., c.l., works lb. .29 - —
dms., l.c.l., works lb. .29¾- —
tanks, works lb. .27 - —
Ethylene glycol monostearate, flake, 150-lb. ctn lb. .33 - —
Ethylene oxide, dms., c.l., dlvd. E. lb. .21½- —
dms., l.c.l., dlvd. E lb. .24½- —
tanks, dlvd. E lb. .15½- —
Ethylene trichloride (see Trichloroethylene)
Ethylenediamine, 85-86%, dms., c.l., dlvd. E., 100% basis lb. .42 - —
dms., l.c.l., dlvd. E. 100% basis. lb. .43 - —
tanks, dlvd. E., 100% basis lb. .40 - —
Ethylvanillin, 100-lb. fib. dms., 500-lb. 6.75 - —
less than 500-lb. lb. 7.40 - —

Eucalyptol, USP, cns., dms. lb. .85 - 1.60
Eucalyptus oil, NF, rectified, 70-75%, dms. lb. .48 - —
NF, rectified, 80-85%, dms. lb. .53 - .62
Eugenol, tech., dms. lb. 0.00 - —
USP, dms. lb. 1.90 - —
Euphorbia herb, bls. lb. .13 - .15

F

F salt paste, tech., dms., works lb. 2.50 - —
Fennel oil, sweet, USP, cns. lb. 2.60 - —
Fennel seed, Argentine, bgs. lb. .16 - —
French, light, bgs. lb. .16 - —
Indian, light, bgs. lb. .17½- —
Rumanian, bgs. lb. .14 - —
Yugoslav, light, bgs. lb. .16½- —
Fenugreek seed, Moroccan, bgs. lb. .09 - —
Ferric chloride, anhyd., tech., 350-lb. dms., c.l., works 100 lbs. 8.00 - —
dms., l.c.l., works 100 lbs. 9.00 - —
Indust., cryst., bbls., c.l., works, 100 lbs. 5.25 - 6.75
bbls., l.c.l., works 100 lbs. 5.75 - 7.25
42° Be., photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald. 100% basis 100 lbs. 4.00 - —
USP, cryst., dms., t.l., works lb. .08½- —
Ferric citrate, gran., dms. lb. .86 - —
Ferric hypophosphite, NF, 175-lb. dm lb. 4.25 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld lb. .28¼- —
Ferric oxalate, tech., gran., 50-lb. dm., f.o.b. works E. lb. 1.30 - —
Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble, gran. pearls, cs lb. .72 - .75
Ferric pyrophosphate, NF VII, soluble, gran. pearls, 225-lb. dm. lb. .79 - —
Ferric resinate, dms., ton lots, frt. alld. lb. .45 - —
Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld. lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l., works ton. 35.25 - —
bgs., l.c.l., works ton. 36.25 -42.25
bulk, c.l., works ton. 33.25 - —
Ferric-amonium citrate, NF, brown, gran., 100-lb. dms. lb. .68 - —
NF, green, gran., 100-lb. dms., frt. equald lb. .68 - —
Ferric-ammonium oxalate, fine gran., dms. lb. .27½- .29½
Ferric-potassium oxalate, fine gran., 250-lb. dm., f.o.b. works lb. .32½- —
Ferric-sodium oxalate, fine gran., dms. lb. .27½- .29½
Ferrous gluconate, USP, 200-lb. dm., frt. equald lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works ton. 34.50 - —
bgs., l.c.l., dlvd. Metropolitan area 100 lbs. 3.35 - 4.25
bbls., c.l., works ton. 40.00 - —
bulk, c.l., works ton. 27.00 - —
USP, cryst., bbls., dms. lb. .09½- .10
Fir balsam, Canada, bbls. gal. 34.00 -35.00
Oregon, bbls. gal. 3.40 4.64
Fir oil, Canada, cns. lb. 1.70 - 1.75
Fish oil, refd., alkali, dms. lb. .1380- .1430
Kettle-bodied, dms. lb. .1530- .1580
Light-pressed, dms. lb. .1280- .1330
tanks lb. .1080- —
Fishliver oil, nat., high potency, 100,000 to 1,500,000 A units per gram, dms. 1,000,000 units. .13 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic and Gulf coasts ton. 108.00 -110.00
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic and Gulf coasts. ton. 102.00 -106.00
Fleaseed (see Psyllium seed).
Folic acid, USP, bots., fib. dms., kilo lots or more gram. .25 - —
10% feed grade, fib. dms., 3 kilos or more kilo. 30.00 -44.00
Formaldehyde, 37% (inhibited, 12 to 15% methanol), USP, dms., c.l., dlvd. lb. .0695- —
tanks, dlvd. lb. .0405- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd lb. .0373- —
Formic acid, 85%, cbys., c.l., works, lb. .1570- —
cbys., l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
cbys., l.c.l., works lb. .1675- .1775
Fringetree bark, bls lb. .65 - .70
Fumaric acid, tech., 250-lb. dms., c.l., frt. equald lb. .23¼- —
dms., l.c.l., frt. equald lb. .24¼- —
Fumaric acid in bags ½c. per lb. less.
Furfural, dms., c.l., works lb. .13 - —
dms., l.c.l., works lb. .14 - —
tanks, dlvd. E lb. .11½- —
tanks, dlvd. W lb. .12½- —
Furfuryl alcohol, cns., works lb. .23 - —
dms., c.l., t.l., Newark, N. J. lb. .19¼- —
dms., l.c.l., t.l., Newark, N. J. lb. .20½- —
dms., c.l., t.l., Memphis, Tenn. lb. .18 - —
dms., l.c.l., t.l., Memphis, Tenn. lb. .19 - —
tanks, dlvd. E. of Denver lb. .175 - —

ETHANOL


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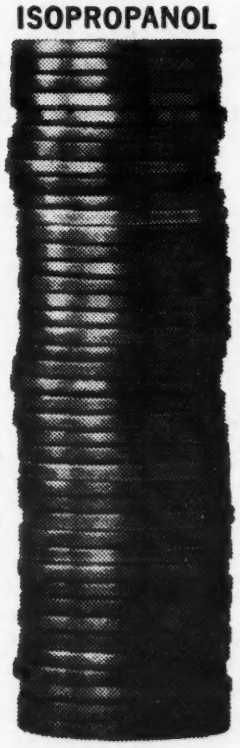
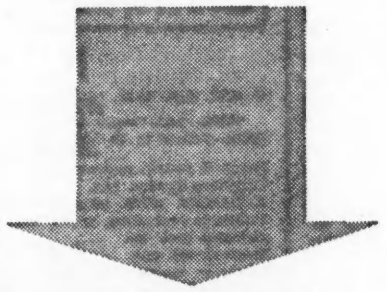
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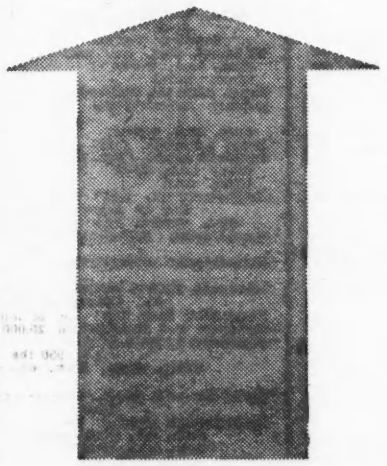

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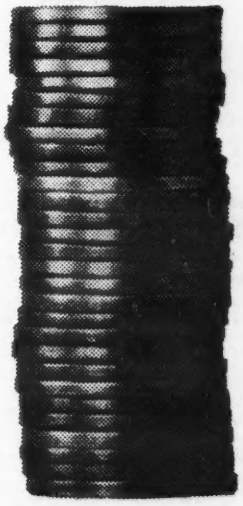

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Export Sales: Amcel Co., Inc., and Pan Amcel Co., Inc., 180 Madison Avenue, New York 16.

Fusel oil, refd., dms., c.l., dlvd lb. .18 - —
dms., l.c.l., dlvd. lb. .19½- —
tanks, dlvd lb. .15½- —

G

G salt, bbls, frt. alld., 100% basis lb. .73 - —
Gallic acid NF VII, bbls, 1,000-lb. lots lb 2.00 —
bbls, smaller lots lb 2.02 2.22
Tech., bbls., 1,000-lb. lots lb. 1.78 - —
bbls, smaller lots lb 1.80 2.00
Gamma acid, dry grd., bbls., frt. alld lb 1.75 —
Gammapicoline (see g-picoline).
Garlic oil, dom, bots. oz. 4.75 6.05
Imp, bots oz 4.50 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible, 75 AOAC test, bbls., c.l., dlvd lb. .55 - —
150 AOAC test, bbls., c.l., dlvd. lb. .64 - —
200 AOAC test, bbls., c.l., dlvd. lb. .70 - —
225 AOAC test, bbls, c.l., dlvd. lb. .74 - —
275 AOAC test, bbls., c.l., dlvd. lb. .82 - —
Gelsemium root, bls. lb .30 - .35
Gentian root, bls. lb .24 - —
Grd., bbls, bxs lb .30 - —
Powd, bbls, bxs lb .30 - —
Geraniol, extra, cns, dms. lb 1.75 2.40
Soap grade, dms lb .90 1.75
Standard, cns., dms. lb 1.65 —
Synthetic, dms lb 1.30 —
Geranium oil, Algerian, cns lb. 19.00 - 22.00
Bourbon, cns. lb. 17.00 - 19.00
Turkish (see Palmarosa oil).
Geranyl acetate, cns lb 1.90 2.70
Synthetic, dms lb 1.45 —
Ginger oil, dist., bots. lb. 12.00 - 14.00
Ginger oleoresin, NF, from African root, bots lb 4.25 5.00
NF, from Jamaican root, bots. lb. 4.75 - —
Ginger root, Cochin, bgs. lb. .19½- —
Jamaican, No. 3, bgs. lb. .28 - —
Nigerian, split, bgs lb. .20 - —
Sierra Leone, bgs lb. .35 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50% dms., c.l., t.l., f.o.b. works lb. .20 - —
dms., l.c.l., f.o.b. works lb .21 - —
tanks, f.o.b. works lb. .17 - —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., dlvd lb. .16 - —
131 jellygrams, bgs., c.l., same basis lb. .16½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
Glue, bone, extracted, dry bone, 191 jellygrams, bgs., c.l., same basis lb. .19½- —
222 jellygrams, bgs., c.l., same basis lb. .21 - —
Glue, bone, green, 40 jellygrams, bgs., c.l., same basis lb. .16 - —
86 jellygrams, bgs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
135 jellygrams, bgs., c.l, same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, l.c.l., prices 2c higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-149, bgs., c.l., dlvd lb. .19 - —
122-149, bgs., c.l., dlvd lb. .20½- —
150-177 bgs., c.l., dlvd lb. .22½- —
178-206 bgs., c.l., dlvd lb. .25 - —
Glue, hide, 207-236, bgs., c.l., dlvd lb. .28 - —
237-266, bgs., c.l., dlvd lb. .30½- —
267-298, bgs., c.l., dlvd lb. .32½- —
299-330, bgs., c.l., dlvd lb. .34½- —
331-362, bgs., c.l., dlvd lb. .36½- —
363-394 bgs., c.l., dlvd lb. .38 - —
Glue, hide, 395-427, bgs., c.l., dvld. lb 40 - —
428-460, bgs., c.l., dlvd lb. 42 - —
461-494, bgs., c.l., dlvd lb. 44 - —
495-529, bgs., c.l., dlvd lb. 46 - —
Hide glue, l.c.l. prices 2c higher.
l-Glutamic acid, 99½%, fib, dms., 100-lb lots, frt alld lb. 1.80 - —
fib, dms., 25-lb. lots, frt. alld lb 1.88 - —
l-Glutamine, bots., 1-9 kilo lots, kilo 150.00 - 300.00
Bots., 50-kilo lots kilo 100.00 —
Bots., 500-kilo lots kilo 75.00 —
Glycerine, dom., nat., crude, saponification 88%, tanks, dlvd, lb. .13½- .14
nat., crude, soaplye, 80%, tanks, dlvd lb. .12½- .12¾
nat., refd., USP, CP, 88%, dms., c.l., dlvd lb. .26⅝- —
dms., l.c.l., dlvd lb. .27⅝- —
tanks, dlvd. lb. .24⅞- —
Glycerine, dom., nat., refd., USP, CP, 96%, dms., c.l., dlvd lb. .25¾- —
dms., l.c.l., dlvd. lb. .26½- —
tanks, dlvd. lb. .24 - —
nat., high gravity, dms., c.l., dlvd lb. .26½- —
dms., l.c.l., dlvd lb. .27¼- —
tanks, dlvd. lb. .24¾- —
Glycerine, dom., refd., syn., 99.5%, dms., c.l., dlvd lb. .26¾- —
dms., l.c.l., dlvd lb. .27½- —
tanks, dlvd. lb. .25 - —
Imp., nat., crude, soaplye, 80%, c.i.f. lb. Nom.
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
No. 2, 90-95%, bgs., fib, dms., ex whse lb. .29 .31
Glycolonitrile, 70%, aqueous, dms., c.l., t.l., works lb .40 - —
dms., l.c.l., same basis lb. .42 - —
tanks, same basis lb. .39 - —
Glyoxal, 30%, dms., c.l., works lb 20½- —
dms., l.c.l., works lb. 21¼- —
tanks, works lb. .18 - —
Goluen seal root, NF, tested, bls. lb. 2.90 3.00
Gramicidin, 1 to 5 kilos, f.o.b. works gram 4.25 - —
Grapefruit oil, dms 2.75 2.90
Graphite, amorp., powd., bgs., fib, dms., ex whse lb. .08 - .09½
Cryst., 88-90% powd., bgs., fib, dms., ex whse lb. .19 .21½
90-92%, powd., bgs., fib, dms., ex whse lb. .21 .24½
Graphite, 95-97%, powd., bgs., fib, dms., ex whse lb. .29 - .31½
Graphite, flake, No. 1, 90-95%, bgs., fib, dms., ex whse lb. .29 - .31
Grease, white, choice all hog, tanks, dlvd lb. .08¼- .08¼
Yellow, tanks, dlvd lb. .07¼- .07¼
Grease oil, No. 1, dms., c.l., f.o.b. Chicago lb. .12½- —
dms., l.c.l., same basis lb. .14½- —
tankcars, same basis lb. .11 - —
Extra winter, strained, dms., c.l., Chicago lb. .15½- —
dms., l.c.l., same basis lb. .17½- —
tankcars, same basis lb. .14 - —
Grease oil, prime, burning, dms., c.l., same basis, Chicago lb. .17½- —
dms., l.c.l., same basis lb. .19½- —
tankcars, same basis lb. .16 - —
Other areas ¾c. higher, except Texas and West Coast, 1¼c. higher.

GREEN PIGMENTS

Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls. lb .40 —
Guaiacol, NF cryst, dms, tins lb 2.10 2.15
liq., cbys., dms lb. 2.30 - 2.40
Guaiacwood oil, cns lb .65 .80
Guaiacol carbonate, NF VII, dms lb 3.40 3.45
Guar gum, edible, bgs., c.l., f.o.b. shipt. pt lb. .38 - —
bgs., l.c.l. same basis lb. .40 - .42
Indust., bgs., c.l., same basis lb. .32 - —
Tech., bgs., c.l., same basis lb. .30 - —

GUMS

Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

H

H acid, dry, bbls, c.l., frt. alld., 100% basis lb 1.00 - —
bbls., l.c.l., same basis lb 1.05 - —
Hansa yellow 10 G, bbls., dlvd, E. of Rockies lb 2.45 —
Hansa G yellow, pigment, bbls lb 2.20 —
Hawthorn berries, bgs. lb .18 .20
Heliotropin, 100-lb lots, dms. lb 2.60 3.40
Hellebore root, dom, green, bls lb 70 .75
Helonias root, bls. lb. 1.50 —
Hemlock oil, cns. lb 2.55 3.00
Henbane leaves, bls lb. .40 - .45
Heptachlor, dms, c.l., t.l., frt. alld., 100% basis lb. .96 —
Heptane, indust., tankcars, New Jersey and New York gal. .20 —
Houston, Texas gal. .1625- —
Hesperidin, purif., 50 kilos, f.o.b. works kilo. 19.70 - —
Hesperidin methylchalcone, 50 kilos, f.o.b. works kilo. 49.25 - —
Hexachlorophene, dms., 1,100 lbs. or more lb 1.84 - —
dms., to 1,100 lbs. lb 1.94 - —
Hexalin (see Cyclohexanol)
Hexamethylenetetramine, tech, bgs., 20,000-lb lots or more, Perth Amboy or New York City lb .233 - —
bgs., 1,000-19,999-lb. lots, same basis lb .243 - —
bgs., smaller lots same basis lb .253 - —
Hexamethylenetetramine, tech., fib, dms., 1,000-lb. lots or more same basis lb. .250 - —
fib dms, smaller lots, same basis lb. .253 - —
USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd New York City and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- 48½
Hexane, industrial, tankcars, New Jersey and New York gal. .20 - —
Houston, Texas gal. .16 - —
1-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks, works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 3.95 4.00
n-Hexyl metnacrylate, dms., c.l., works lb. 75½- —
dms., l.c.l., works lb 76 - —
Hexyl salicylate, dms. lb. 1.70 1.75
Hexylene glycol, dms., c.l., dlvd lb .17½- —
dms., l.c.l., dlvd. lb .19 - —
tanks, dlvd lb .15 - —
Hexylresorcinol, USP, dms., 25-lb. lots or more dlvd lb. 14.00 - —
dms, smaller lots, dlvd lb. 14.50 - —
Homatropine hydrobromide, USP, bots oz. 3.25 - —
Homatropine methylbromide, USP, bots oz. 3.00 - 3.25
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton 6.75 - —
Horehound herb, bls lb. .18 .20
Hydrastis (see Goldenseal)
Hydrazine hydrate, 85%, 240-lb. dms., c.l., works lb. 1.28 - —
240-lb. dms., l.c.l., works, lb. 1.35 - 1.55
Hydriodic acid, purif., 47%, 2-cbys., f.o.b works lb 2.92 - —
Hydroabietyl alcohol, tech, solid, dms., c.l., dlvd, zone 1 lb. .29¼- —
dms., l.c.l., dlvd zone 1 lb. 29¾- .30¼
tanks, dlvd zone 1 lb 27¼- —
Zone 1 for hydroabieyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, cbys, frt equald lb. .48 .56
Hydrochloric acid, anhyd (see Hydrogen chloride)
Hydrochloric acid, 18° cbys., c.l., works 100 lbs 2.50 - —
cbys., l.c.l., dlvd Metropolitan area 100 lbs 2.90 3.05
tanks, works, frt equald ton 28.00 - —
20°, cbys., c.l., works 100 lbs 2.75 - —
cbys., l.c.l. dlvd Metropolitan area 100 lbs 3.15 - —
tanks, works, frt equald ton 30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
cbys, l.c.l., dlvd Metropolitan area 100 lbs 3.65 - —
tanks, works, frt equald ton 35.00 - —
Hydrochloric acid, CP, USP, consumers, cbys, extra, c.l., works lb. .15¾- —
cbys, l.c.l., same basis lb. .17¼- .17¾
5-pint bots., extra cs., c.l., same basis lb. .20¾- —
lb. .20¾- —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram. .95 - —
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram. 1.00 - 1.90
Hydrocyanic acid, dilute, NF, 2%, 5-pint bots., f.o.b. works, pint. .70 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal. or 30-gal. dms., c.l., t.l., dlvd 100 lbs. 19.25 - —
55-gal. dms., l.c.l., l.t.l., dlvd 100 lbs. 20.75 - —
30-gal. dms., c.l., t.l., dlvd 100 lbs 21.00 - —
20-gal., dms., l.c.l., l.t.l., dlvd. 100 lbs. 22.50 - —
tanks, works frt. equald 100 lbs 13.40 —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery
Hydrofluosilicic acid, dms., works, 30% basis lb. .07 - —
Hydrofuramide, dms., fib, ctns., works lb. .30 .40
50-lb. cyls., l.c.l., works lb. .55 .60
Hydrogen chloride, anhyd., 50-lb. cyls, l.c.l., works lb. .45 - —
Hydrogen cyanide, liq., 98%, tanks, works lb. .14 - —
Hydrogen fluoride, anhyd., cyls., dlvd. E lb. .30½- .32½
cyls., dlvd W lb. .39 - —
tanks, works lb. .18 - —
Hydrogen peroxide, 35%, dms., c.l., dlvd lb. .202 - —
dms., l.c.l., dlvd. lb. .211 - —
tanks, dlvd lb. 1800- —
Hydroquinone, photo grade, dms., 50-lbs, f.o.b works lb 1.10 - —
Tech., dms., c.l., dlvd. lb. .82½- —
dms, l.c.l, dlvd lb. .84½- —
Hydroquinone monomethyl ether, dms., t.l. dlvd lb 2.59 - —
dms., l.t.l., dlvd lb 2.61 - —
Hydroxyacetic acid, tech., 70% dms, Philadelphia and Chicago lb. .11 - —
tanks, Belle W Va lb .073 —
Hydroxycitronellal, cns. lb. 5.65 - 6.00
Hydroxyethyl cellulose, fib, dms., 20,000-lb. lots or more, f.o.b. shipping point lb. .74 - —
fib dms, 2,000 to 19,999-lb lots, same basis lb. .79 - —
fib dms, 100 to 1,999-lb lots, basis lb. .83 - —
fib, dms., smaller lots, same lb. .93 - —
(Highest viscosity [15,000 cps.] grade is 10c. per lb. higher.)
Hyoscine salts (see Scopolamine)
Hyoscyamine hydrobromide, bots. oz. 7.75 8.50
Hyoscyamine sulfate, bots oz. 7.75 8.50
Hypophosphorous acid, purif., 50%, 10-cbys, f.o.b works lb 1.95 - —
NF 50%, 10-cbys., same basis lb. 1.35 - —

I

Ichthammol, NF, dms. lb. .75 1.05
Indigo (see Dyes, coaltar, 1171 indigo, syn.).
Indole, CP, bots. lb. 13.65 - 15.00
Inositol, 50-100 lb dms., 1,000 lbs. or more, dlvd lb 4.50 - —
50-lb. dms., less than 1,000 lb., dlvd lb 4.75 - —
10 lb cns., 10-50 lbs dlvd lb 5.00 - —
5 lb bots., dlvd lb 5.25 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs. lb. 1.10 - —
Resub., USP, dms., f.o.b. works lb. 2.20 - 2.22
Iodochlorohydroquinolin, USP, dms. lb 3.60 —
Iodoform, NF, dms, 300-lbs., f.o.b. works lb 4.90 - —
dms., 100-lbs., same basis lb 5.05 - —
a-Ionone, cns lb 4.60 5.75
b-Ionone, cns lb 4.15 6.15
Ipecac root, whole, bgs lb. 8.00 - 8.50
Powd., bbls., bxs lb. 9.50 - 10.00
Irish moss, bleached, prime, bls lb. .30 - .32
Iron blue, alkali-resisting, bbls., c.l., dlvd, E lb. .60 - —
bbls, l.c.l, ton lots, same basis, lb. .61 - —
bbls., smaller lots, same basis, lb. .62 - —
Dom., reg, bbls., c.l., dlvd, E lb. .55 - —
alkali-resistant, dom., reg., bbls., c.l., ton lots, same basis lb. .56 - —
bbls, l.c.l., smaller lots same basis lb. .57 - —
Imp, British, reg., bbls, c.l., dlvd, E lb. .48 - —
bbls., l.c.l., ton lots, same basis lb. .49 - —
Iron blue, imp., British, reg., bbls., l.c.l., smaller lots, same basis lb. .50 - —
Iron blue dlvd, prices 1c higher for Pacific Coast states: Wash., Ore., Cal., N. M., Ariz., Mont., Wyo., Utah, Col. and Nev.
Iron compounds (see Ferric or Ferrous).
Iron oxide, black, pure, bgs., c.l., works lb. .14¾- —
bgs., l.c.l., works lb. .15 - —
Iron oxide, brown, pure, bgs., c.l., works lb. .14¼- —
bgs., l.c.l., works lb. .14½- —
Iron oxide, metallic, brown, bgs., works lb. .05½- —
Iron oxide, Persian Gulf, red., bgs., c.l., works lb. .08¾- —
Iron oxide, red, dom., pure, bgs., Bethlehem, E. St. Louis, New York City lb. .14¼- —
Iron oxide, red, nat., 75-85% ferric oxide, bgs., c.l., works lb. .06¼- —
bgs., l.c.l., works lb. .06½- —
Iron oxide, Spanish red, bbls., c.l., ex dock lb. .05¾ Nom.
bbls, l.c.l., ex dock lb. .06 Nom
bbls., l.c.l., ex whse, New York, lb. .06½ Nom.
Iron oxide, yellow, nat., French type, bgs., c.l., works lb. .06¾- .07
Peruvian type, bgs., l.c.l lb. .023 .024
Iron oxide, yellow, pure, light lemon shade, bgs, c.l, works lb. .12¼- —
other shades, same basis lb. .13 - .12½
Isoamyl alcohol, dms., c.l., works, frt. alld, E lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Isoborneol, cns lb 1.44 1.80
Isobornyl acetate, cns lb 46 56
Isobornyl formate, dms lb. 1.15 1.20
Isobornyl propionate, dms lb. 1.20 1.25
Isobutyl acetate, perfume grade, cns lb. .30 .35
Solvent grade, dms., c.l., dlvd, E. of Rockies lb. .15½- —
dms., l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12¾- —
Isobutyl alcohol, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks, dlvd lb. .13 - —
Isobutylene, 99% tanks, works gal. .38 - —
Isobutyl isobutyrate, dms., f.o.b. works lb. .75 - —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½- —
dms., l.c.l., dlvd. lb. .28½- —
Tech., dms., c.l., dlvd. lb. .22 - —
dms., l.c.l., dlvd. lb. .23½- —
tanks, dlvd. lb. .19½- —
Isobutyric acid, dms., c.l., t.l., dlvd. lb. .35 - —
dms., l.c.l., l.t.l., same basis lb. .36½- —
t.c. t.t., same basis lb. .33 - —
Isobutyronitrile, dms., c.l., dlvd. lb. .47½- —
dms., l.c.l., dlvd. lb. .48½- —
tanks, dlvd. lb. .45 - —
Isoeugenol, cns. lb. 3.10 - 3.40
Isoniazid, powd., bulk, 50 kilos kilo. 12.00 - —
Isonicotinic acid, 100-lb. fib, dms., works lb. 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid).
Iso-octyl alcohol, dms., c.l., dlvd. E lb. .20½- —
dms., l.c.l., dlvd. E lb. .22 - —
tanks, dlvd, E lb. .18 - —
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .16½- —
Isophorone, dms., c.l., dlvd lb. .24½- —
dms., l.c.l., dlvd lb. .25½- —
tanks, dlvd. lb. .22½- —
Isophthalic acid, dms., c.l., works, frt. equald lb. .19 - —
dms., l.c.l., same basis lb. .20 - —
Isopropanol (see Isopropyl alcohol).
Isopropyl acetate, dms., c.l., dlvd, lb. .14 - —
dms., l.c.l., same basis lb. .15½- —
tanks, same basis lb. .11½- —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 - —
dms., l.c.l., dlvd. gal. .68 - —
tanks, dlvd gal. 42 - —
95%, c.l., dms., dlvd gal. .60 - —
dms., l.c.l., dlvd. gal. 70 - —
tanks, dlvd gal. 44 - —
Anhyd., c.l., dlvd gal. .62 - —
dms., l.c.l., dlvd. gal. .72 - —
tanks, dlvd gal. .46 - —
Isopropyl benzene (see Cumene).
Isopropyl ether, dms., c.l., dlvd lb. .09½- —
dms., l.c.l., dlvd. lb. .11 - —
tanks, dlvd lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC) tech., dms., c.l. t.l., works lb. 1.00 —
dms., l.c.l., works lb. 1.05 1.25
tanks, works lb. .99 —
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb fib dms. c.l., t.l., works lb. .75 —
450-lb. fib dms., l.c.l., works lb. .80 .90
Isoquinoline, dms., works lb. .65 1.25
Itaconic acid, refd, bgs, c.l., f.o.b. works lb. .39½- —
bgs., l.c.l., same basis lb. .41 - .43
Tech., bgs., c.l., same basis lb. .34½- —
bgs., 500-lbs. same basis lb. .36 - —

J

J acid, paste, bbls., works, 100% basis lb. 2.70 - —
Powd., bbls., same basis lb. 2.75 - —
Jalap root, NF, bls lb. .55 - .60
NF, powd., bbls., bxs lb. .65 - .70
Japan wax, cs. lb. .29 - .31
Juniper berries, bgs. lb. .16 .17
Juniper berry oil, NF, bots. lb. 2.90 3.75
Twice rectified, bots. lb 3.25 —
Juniper tar oil, NF, dms. lb. .42 .60
Juniper wood oil, tech, cns. lb. .36 .55

K

Kaolin (see also Clay, China).
Kaolin, NF, powd., fib, dms lb. .10 - .12
NF colloidal, 50-lb. bgs. lb. .15½- .17½
Karaya gum, No. 1, NF, powd., bls lb. .48 .50
No. 2, powd, bbls. lb. .43 .45
No. 3, powd, bbls. lb. .37 .40
Koch acid, bbls., frt. alld., 100% basis lb. 1.00 —
Kola nuts, bgs. lb. .11 - .13

L

L acid, bbls., works lb. 1.25 - —
Lacquer diluent, petroleum, 140°F, 200°F b.r., tankcars, New Jersey and New York gal. .20 - —
Group 3 gal. .15125- —
Houston, Texas gal. .16 —
200°F-240°F b.r., tankcars, New Jersey or New York gal. .20 - —
Group 3 gal. .14125- —
Houston, Texas gal. .16 —
Lactic acid, edible, 50%, bbls, dms., c.l., frt. equald lb. .1985- —
bbls., dms., 20 or more, frt. equald lb. .2035- —
bbls., dms., 5 to 19, frt. equald, lb. .2085- —
bbls, dms., 1 to 4, frt. equald, lb .2135- —
80%, bbls., c.l., dms., frt. equald. lb. .3335- —
bbls, dms., 20 or more, frt equald lb. .3385- —
bbls., dms., 5 to 19 frt. equald, lb. .3435- —
Lactic acid, 80%, bbls., dms, 1 to 4, frt. equald, lb. .3485- —
Plastic grade, 50% c.l., bbls., works lb. .2740- —
bbls., 20 or more, works lb. .2790- —
bbls, 5 to 19 works lb. .2840- —
bbls., 1 to 4, works lb. .2890- —
80%, bbls., c.l., works lb. 4625- —
bbls, 5 to 19, works lb. .4725- —
bbls, 1 to 4, works lb. .4775- —
Tech., 44%, bbls., c.l., works, 100 lbs. 12.45 - —
bbls., l.c.l., works 100 lbs. 12.85 - —
USP, 85% cbys. lb. .85 - —
Lactose, crystalline, edible, bgs., 23,000-lb lots, frt. equald lb. .14 - —
bgs., 6,000-lb lots, frt equald lb. .14½- —
bgs., 2,000-lb lots, frt equald lb. .14¾- —
bgs., 200-lb lots, frt equald lb. .15¼- —
Edible lactose in fib dms., ½c higher.
Lactose, ferment. grade, bgs, c.l., works lb. .08¾- —
Lactose, USP, reg., fib, dms., 30,000-lb. lots, frt. equald lb. .21½- —
fib dms 2,000-lb lots, frt. equald lb. .22¼- —
200-1,880-lb. lots, frt. equald lb. .22¾- —
USP lactose in bags ½c to 1c lower
Lactose, USP, spray dried, bgs., t.l., frt. equald lb. .18½- —
bgs., l.t.l., frt equald lb. .19 19¾
Lady's slipper root, bls lb. 3.00 3.50
Lamp black, bgs., c.l., works lb. .16 - .45
Lanolin, USP, anhyd., 400-lb dms., works lb. .24 - .26
USP, anhyd., cosmetic, 400-lb. dms., works lb. .26 - .30
USP, hydrous, 400-lb dms., works, lb. .20 —
Lard, cash, dms., Chicago lb. 10¾- —
Lard oil (see Grease oil).
Larkspur seed, bgs lb. .55 —
Laurel leaf oil, dms, cns. lb 9.75 - 12.50
Laurent's acid, bbls lb. .87 - —
Lauric acid, pure, dms lb. .30¼- .32¼
bags lb. .28¾- .31¼
tanks lb. .27¾- —
Lauryl alcohol, bots lb. 2.00 2.50
n-Lauryl methacrylate, dms., c.l., t.l., works lb .65½- —
dms., l.t.l., works lb. .66 - —

Lavandin oil, 32-34%, dms. ..... lb. 1.15 - —
Abrial, dms. ..... lb. 1.20 - —
Lavender flowers, medium, bls ..... lb. .55 - .60
Ord., bls. ..... lb. .20 - .25
Select., bls. ..... lb. .90 - 1.00
Lavender flower oil, USP, French, 35-37% ester, cns lb 1.85 4.00
40-42% ester, cns. ..... lb. 3.50 - 3.65
Spike, Spanish, cns ..... lb. 1.75 - 2.00
Lead acetate, NF, cryst., gran., powd., bbls lb. .34½- —
White, cryst., bbls. ..... lb. .25½- —
gran., bbls. ..... lb. .26½- —
powd., bbls ..... lb. .26½- —
Lead arsenate acid powder, dealers, 3-50-lb. bgs or any quantity frt alld on $150 or more lb. .30½- —
1-lb bgs., same basis lb. .47 - —
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld lb. .17 - —
bbls., l.c.l., same basis lb. .18 - —
Lead carbonate (see Lead, white, basic carbonate)
Lead chloride, 400-lb. fib. dms lb. .36 - —
Lead iodide NF V jars lb 3.82 - —
Lead linoleate, fused, 28.5% Pb, dms. lb. .38 - —
Lead metal, prime, pigs, New York, lb. .11 - —
St. Louis ..... lb. .1080- —
Lead monosilicate, bgs., c.l., works, frt equald lb. .1385- —
bgs., l.c.l., same basis lb. .1485- —
Lead naphthenate, liq., 16% Ph., dms. dlvd lb. .19½- —
24% Pb. dms., dlvd lb. .24¼- —
Solid, 37% Pb., dms dlvd lb .31¾- —
Lead nitrate, tech., cryst., 400-lb. fib. dms lb. .2675- —
Lead orthosilicate, tel., 50-60% PbO, dms., works lb. .29¾- .34½
Lead peroxide, tech powd., bbls lb. .45 - .50
Lead phthalate, dibasic, dms., works, lb. .41 - —
Lead, red, 95% Pb_3O_4, or less, bbls., c.l., works, frt equald, lb. .1375- —
bbls., l.c.l., same basis lb. .1475- —
97% Pb_3O_4, bbls., c.l., same basis lb. .1395- —
bbls., l.c.l., same basis lb. .1495- —
98% Pb_3O_4, bbls., c.l., same basis lb. .1410- —
bbls., l.c.l., same basis lb. .1510- —
Lead, resinate precip, 21% Pb, dms., lb. .49 - —
Lead salicylate, normal dms., works lb. .46 - —
Lead silicate (see Lead white basic silicate).
Lead silicochromate, bgs., c.l., f.o.b. mfrs point, frt. alld lb. .20 - —
bgs., l.c.l., same basis lb. .21 - —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate, liq., 16% Pb, dms lb. .17¼- —
24% Pb, dms ..... lb. .21¼- —
Solid, 30% Pb, dms ..... lb. .26¾- —
Lead white, basic carbonate, bgs., c.l., shipt pt., frt. alld lb. .18 - —
bgs l.c.l. same basis lb. .19 - —
Lead, white, basic silicate, bgs., c.l., shipt. pt., frt. alld. lb. .16½- —
bgs., l.c.l., same basis ..... lb. .17½- —
Lecithin, edible, tech, bleached, non-ret. dms., c.l. works, lb. .14 - .15
non-ret dms. l.c.l., same basis lb. .15 - .16
unbleached, non-ret. dms., c.l., same basis lb. .13 - .14
non-ret dms l.c.l. same basis lb. .14 - .15
Lemon bioflavonoid complex, 50 kilos, f.o.b. works kilo. 14.20 - —
Lemon oil, USP, Calif., cns., dms., lb. 2.45 - 2.60
Messina, cns ..... lb. 4.00 - 6.50
Lemongrass oil, cns., dms ..... lb. 2.60 - 2.75
dl-Leucine, dms., 1 kilo, works kilo. 50.00 - —
Licorice root, gran. bls. lb 13 - —
Powd. bls lb .15 - .16
Whole bls lb .09 - .10
Lignaloe wood oil, Mexican, cns lb. 2.75 - 3.50
Lignosulfonate (see under Ammonium or Sodium lignin sulfonate)
Lilac oil lb. 1,500.00
Lime, chemical (quicklime), bulk, c.l. 50,000 lbs. works, E. ton 14.25 - —
Chemical hydrated, bgs., c.l., same basis ton 17.25 - —
spray, bgs., c.l., same basis ton 18.25 - —
For New York delivery, add $6.29 freight charge
Lime oil, dist., Mexican, dms ..... lb. 5.50 - 6.00
West Indian, dms ..... lb. 5.50 - 6.00
Expressed, West Indian, dms lb. 6.50 - 7.75
Lime salts (see Calcium)
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool ex bois de rose oil, dms. lb. 2.45 - 4.25
Syn. 96-100% dms., works lb. 2.40 - 2.75
Linalyl acetate ex bois de rose, 90-92%, dms lb. 2.65 - 4.50
96-98% dms lb 3.25 - —
Syn., 98-100% dms., works lb. 2.75 - —
Lindane, 25% formulation, to distributors, dms, frt. alld. lb. 1.35 - 1.50
99%, tech, to formulators, 250-lb. dms., 5,000 lbs., dlvd lb. 2.13 - —
100-lb dms., 5,000-lbs. dlvd lb. 2.15 - —
250-lb. dms., less than 5,000-lbs., dlvd lb. 2.18 - —
100-lb dms., less than 5,000-lbs. dlvd lb. 2.20 - —
Linden flowers, with leaves, bls lb. .35 - .40
Without leaves bls lb. .42 - .45
Linseed meal, expeller, 32%, bulk, Minneapolis, mills ton 50.50 - —
Extracted, 34%, bulk, same basis, ton 52.50 - —
Linseed oil, raw, dms., c.l., New York lb. .1670- —
dms., l.c.l., New York ..... lb. .1760- .1810
tanks, f.o.b. Minneapolis ..... lb. .1310- —
tanks, New York ..... lb. .1422- —
tankwagon, New York ..... lb. .1472- —
Boiled linseed oil, .006c. per lb. higher.
Linseed oil acid, dist., dms. ..... lb. .3075- .3325
Water white, dms. ..... lb. .2425- .2675
Litharge, comm., powd. bbls., c.l., works, frt. equald lb. .1325- —
bbls., l.c.l., same basis lb. .1425- —
Lithium aluminum hydride, lump, dms., works lb. 33.00 - 39.00
Lithium benzoate, dms. lb. 1.65 - 1.67
Lithium bromide, NF, gran., bgs., works, frt. equald lb. 2.00 - —
Lithium carbonate, NF, dms., ton lots lb. .58 - —
dms., 1,999 lbs. or less ..... lb. .64 - —
Tech., dms., ton lots ..... lb. .57 - —
dms., 1,999 lbs. or less ..... lb. .63 - —
Lithium chloride, CP, anhyd., dms., ton lots lb. 1.23½- —
Tech, anhyd., dms., c.l., t.l., dlvd. or works, frt. alld lb. .87 - —
dms. l.c.l. same basis lb. .98 - .99
Lithium citrate, NF, dms, ton lots, lb. 1.50 - —
Lithium fluoride, dms., 20,000-lb. lots, dlvd lb. 1.75 - —
bbls., ton lots and more, dlvd lb. 1.85 - —
bbls., less ton lots, dlvd ..... lb. 1.90 - —

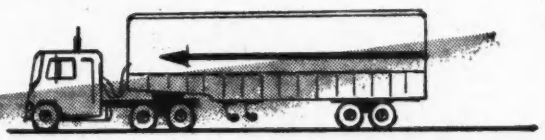
Lithium hydride, powd., dms., 500-lbs. lots or more, works, lb. 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld lb. .60 - —
dms., l.c.l., frt. alld ..... lb. .64 - —
Lithium manganite, dms., works lb. .95 - 1.05
Lithium nitrate, tech., dms., 100-lb. lots lb. 1.15 1.25
Lithium salicylate, dms. ..... lb. 1.60 1.70
Lithium silicate, dms., works ..... lb. 1.10 1.20
Lithium stearate, dms. c.l., works, lb. .47½- —
dms., ton lots, works ..... lb. .48½- —
dms., less-ton lots, works ..... lb. .53½- —
Lithium sulfate, dms., 100-lb. lots, lb. 1.15 1.25
Lithium titanate, dms., works lb. 1.15 1.25
Lithol red toner, barium, bbls., works lb. 1.03 - —
Lithol-rubine red toner, pure, bbls., works lb. 1.65 - —
Resinated, bbls., works lb. 1.47 - —
Lithopone, ord. bgs. c.l., dlvd E. lb. .08⅜- —
bgs., l.c.l., dlvd. E lb. .09⅛- —
Titanated (high-strength), bgs., c.l., dlvd lb. .11 - —
bgs., l.c.l., dlvd. ..... lb. .12 - —
Lobelia herb, bls ..... lb. .95 - 1.10
Lobeline sulfate, bots., 50-oz. lots, works oz. 30.00 - —
Locust bean gum, powd., bgs. lb. .35 .46
Lycododium, cs. lb. 2.50 - 3.00
l-Lysine monohydrochloride, 25-lb. dms lb. 4.95 - —

M

Mace, Siauw, No. 1, bls. ..... lb. 1.58 - —
No. 2, whole, bls. ..... lb. 1.40 - —
siftings, bls. ..... lb. 1.35 - —
Mace oil, dist., cns., dms ..... lb. 9.00 - 11.00
Magnesia, calcined, tech., bgs., cns., frt. equald lb. .25¾- .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb .28¾- .30
rubber grade, extra light, bgs., c.l., frt. equald lb. .28 - —
bgs., l.c.l., frt. equald lb. .28¾- —
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points
Magnesia, calcined, tech., heavy, 85% bgs., c.l., f.o.b. Lunning, Nev ton 39.50 - —
91%, bgs., c.l., same basis, ton 49.50 - —
95%, bgs., c.l., same basis ton 59.00 - —
USP, light, bgs. ..... lb. .36½- .37½
USP, heavy, bgs. ..... lb. .36½- .37½
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton 86.25 - —
Magnesite, chemical grade, dead-burnt, standard grain, bulk, c.l., Chawelah, Wash ton 46.00 - —
Magnesium bromide, 80-lb. dm., f.o.b. works lb. 1.15 - —
Magnesium carbonate, tech., bgs., c.l., frt. equald lb. .11 - —
bgs., t.l., frt. equald ..... lb. .11½- —
bgs., l.c.l., frt. equald ..... lb. .13½- .14
Magnesium carbonate, USP, bgs., c.l., frt. equald lb. .13½- —
bgs., t.l., frt equald lb .14 —
bgs., l.c.l., frt equald lb .15 .16
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points.
Magnesium chloride, annyd 92%, flake or pebble, drums., c.l. works lb. 12¾- —
dms. l.c.l., works lb 14 .15
hydrous, 99%, flake, bgs., c.l., works ton 60.00 —
bgs., l.c.l., works ton 75.00 - 100.00
Magnesium gluconate, 100-lb dm f.o.b works E lb 1.42 —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b. works lb. .24½- .25½
Magnesium lauryl sulfate, dms., c.l., frt. alld lb .22½- —
dms., l.t.l., frt alld lb .23½- —
tanks, frt alld lb. .21½- —
Magnesium metal, 99.8%, ingots, 10,000-lb lots or more, works lb .36 - —
pigs., 10,000-lb. lots or more, works lb. .35½- —
sticks, cs., works, same basis lb. .59 - —
Magnesium nitrate, cryst., dms., works lb .20 - —
Magnesium oxide (see Magnesia calcined).
Magnesium phosphate, tribasic, NF, bbls lb. .75 - —
Magnesium silicate (see Talc).

ORONITE

MIXED SHIPMENTS



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Magnesium silicofluoride, dms., works lb .10½- .12

Magnesium sulfate, tech., bgs., c.l., works 100 lbs 2.15 —
bgs. l.c.l., works 100 lbs 2.90 3.15
USP cryst. bgs. c.l., works 100 lbs 2.35 —
bgs. l.c.l. 5,000 lbs., l with-drawal 100 lbs 3.10 —
bgs., smaller lots 100 lbs 3.35 —

Magnesium trisilicate, USP, fib dms., 5,000-lb lots lb .38 —
fib dms. 1,000-lb lots lb .40 —
fib dms. 100-lb lots lb .45 —

Bulky and super grades of magnesium trisilicate 7c. per lb. higher

Malachite green, straight, PTA, bbls., works lb 5.30 - —

Malathion, dms., c.l., works lb .89 —
dms., l.c.l., works lb .92 1.01

Maleic acid, cryst, powd, dms lb .37¼ —

Maleic anhydride, dms, c.l, frt equald lb .24 —
dms, l.c.l, frt equald lb 25½ —
tanks lb 23½ —

Maleic anhydride in bags ½c per lb less

Malic acid, tech, dms lb .50 —

Mandelic acid, NF, dms., 1,000-lb lots lb 2.35 —
dms, smaller lots lb 2.40 2.50

Mandrake root, bls lb. .45 —

Manganese acetate, dms., dlvd lb .35 —

Manganese borate, tech., fib dms. lb. .23½- —

Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb lots and more, works lb. .11 .16

Manganese chloride, CP, anhyd., dms, 20,000-lb lots, works lb. 21¾ —
smaller lots, works lb. 23½- —

Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb lots, burlap paper lined bgs., gross for net works ton. 148.00 - —
40,000 to 99,999-lb lots, paper bgs., same basis ton 144.50 —
40,000 to 99,999-lb lots, dms, same basis ton. 152.50 - —

Prices for manganese dioxide in 10,000 to 40,000-lb lots $3 per ton higher

Manganese gluconate, dms lb. 1.84 - —

Manganese hydrate, dms., dlvd lb. .35 - —

Manganese hypophosphite, NF dms. lb. 3.52 - —

Manganese linoleate liq, 4.35% Mn, dms lb. .35¾- —
Solid, precip., 8.2% Mn, bbls lb. 41¼ —

Manganese metal, electrolytic, dms., c.l., dlvd, E lb. .34½- —
dms., ton lots, dlvd E lb. .37 - —
dms., smaller lots, dlvd E lb. .39 - —

Manganese naphthenate, liq., 6% Mn, dms., frt alld lb. .29¾- —

Manganese resinate fused, 3½% Mn, dms lb .29¼ —

Precip, 6½-7% Mn, dms lb. .42 - —

Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd S, E ton 86.50 —
bgs, l.c.l, dlvd S, E ton 93.50 - —

Manganese tallate 6% dms lb .26½- —

Manila copal gum C, bgs lb. .35 .39
DBB, bgs lb .[illegible] [illegible]
DK, dust bgs. lb. .14 Nom.
MA, soft bgs lb .20 24
WS, bgs lb. No stocks.

Mannitol, com'l fib dms., ton lots, works lb. .60 —
fib dms, to ton lots, works lb. .62 —
fib dms, single dm, works lb. .65 —

Marine pitch, dms lb. .04¼- .05

MBTS (see Mercaptobenzothiazyl disulfide).

MBT (see 2-Mercaptobenzothiazole).

Melamine, bgs, c.l., works lb. .26½- —
bgs., l.c.l., works lb. .28 —

Menadion, USP bots. gram. .044 .05

Menhaden oil, crude, tanks, works, Atl. & Gulf ports c.l. .06¾- —

Menthol, nat USP, Brazilian large crystals, cs lb. 8.10 - —
Nat. USP Brazilian, regular crystals, cs lb. 8.00 - —
Japanese cs lb. 10.50 12.00
Syn., USP, racemic, 25-lb lots lb 4.25 —

2-Mercaptobenzothiazole, bgs., fib, dms, ton lots works, frt. alld lb. .44 - —
bgs, fib dms, less ton lots, same basis lb .46 - —

Mercaptobenzothiazyl disulfide, bgs., fib dms, ton lots, works, frt. alld lb. .54 - —
bgs, fib dms, less ton lots, same basis lb .56 - —

Mercuric chloride, NF, cryst, dms., 100 lbs, f.o.b. works lb 4.03 - —
USP gran or powd., 50-lb dm., 100 lbs, f.o.b. works lb 3.78 - —

Mercuric cyanide, NF VIII powd., fib dms lb 5.84 - —

Mercuric iodide, red, NF, 100-lb dm, f.o.b. works lb 6.97 - —

Mercuric oxide, red, NF IX, 50-lb dm, 100 lbs, f.o.b. works, tech, 50-lb dm, 100 lbs, same basis lb 4.72 - —
yellow, NF, 50-lb. dm., 100 lbs., same basis lb 4.52 - —
tech., dms, 100 lbs lb 4.89 - —
25-lb fib dm lb 4.35 - —
25-lb fib dm lb 4.38 - —

Mercurous chloride (see Calomel).

Mercury, ammoniated (see White precipitate, USP XV).

Mercury metal, 76 lbs per flask, net-flask. 200.00 -202.00

Mesityl oxide, dms, c.l., dlvd lb .15 —
dms, l.c.l., dlvd lb 16½ —
tanks, dlvd lb 12½- —

Meta aminophenol (see m-Aminophenol).

Metaphenylenediamine (see m-Phenylenediamine).

Metanilic acid, dms., works lb. .57 - .75

Metanitrotoluene (see m-Nitrotoluene).

Metanitroaniline (see m-Nitroaniline).

Metaphenylenediamine (see m-Phenylenediamine).

Metatoluidine (see m-Toluidine).

Metatolylenediamine (see 2,4-Tolylenediamine).

Methacrylic acid, glacial 98% dms, truckloads frt equald lb .42½ —
dms, smaller lots frt equald lb .43 .75
tanks, works frt equald lb .40 —

Methanol, nat, denaturing grade, tanks frt alld gal .85 —
Syn, zone 1, dms., c.l., or t.l., min dlvd gal. .51½ —
dms, c.l, dlvd gal .61½ —
Syn., tankwagon, 2,000-4,000 gal. lots, dlvd, Metropolitan area gal. .35 - —
tankwagon, 4,000 gal min., dlvd gal. .30 —
tankwagon, 4,000 gal min., f.o.b. terminal gal. .29 - —

Methanol, syn., zone 2, dms., c.l., t.l., min. frt. alld. or dlvd gal. .55½- —
dms, c.l., works gal. .65½- —
tankwagon, 2,000-4,000 gal. lots, min., dlvd, Metropolitan area gal. .39 —
tanks, 4,000 gal min., dlvd gal .34 —

Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz, Calif., Idaho, Nev., Ore., Utah and Wash.

Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt equald lb 21.75 - —

Methapyrilene hydrochloride, 100-999 lbs, dms, f.o.b works, frt equald lb 27.25 —

Methenamine (see Hexamethylene-tetramine).

Methionine hydroxyanatogue (calcium salt) 90% min., dms, f.o.b, frt alld lb 1.10 - —
dms., f.o.b, same basis lb 1.16 - —

dl-Methionine, fib dms., frt alld, 50-lb or more lb 2.50 - —

Feed grade 98% fib dms, same basis lb 1.43 - —

Methoxychlor 50% wettable powder, dealers, dms, cs lb .66 —

Methyl abietate, non-ret dms., c.l., dlvd, zone 1 lb 21½ —
non-ret dms, t.c.l, same basis lb .22 .22½

Methyl abietate, hydrogenated, non-ret dms., c.l, dlvd, zone 1 lb .23½- —
non-ret dms, t.c.l, same basis lb 24 24½

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Methyl acetone, nat, dms., c.l., E of Miss, frt alld gal 62½ —
Syn., dms., c.l., frt, alld, E gal. .66 - —
dms., t.c.l., frt. alld, E gal. .76 - —
tanks frt alld E gal 51 —

Synthetic methyl acetone E territory comprises all states East of and including Colo., Mont., N. Mex. and Wyo. West territory is made up of rib states west of those four.

Methyl acrylate, dms., c.l., t.l., dlvd. lb. .35¼- —
dms., t.t.l., dlvd lb. .36¼- —
tanks, dlvd. lb. .32¼- —

Methyl alcohol (see Methanol).

Methyl amyl acetate, dms., c.l., dlvd, E lb. .17 - —
dms., t.c.l., dlvd, E lb. .18½- —
tanks, dlvd, E lb. .14½- —

Methyl amyl alcohol, dms., c.l., dlvd. lb. .17 - —
dms., t.c.l., dlvd. lb. .18½- —
tanks, dlvd lb. .14½- —

Methyl amyl ketone, dms., c.l., t.l., f.o.b. works lb. 1.99¼- —
dms., t.c.l., same basis lb. 2.00 - —

N-Methylaniline, tech., tanks, frt. alld lb .60 —

Methylanthranilate, cns. lb. 2.20 - 2.70

Methyl benzoate, cns., dms. lb .69 .75

Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld lb. .62 - .72
on 100 lbs lb. .73 - .79

Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .82 - —
50-lb bgs., 2,000-lb lots and more, same basis lb. .89 - —
50-lb bgs., smaller lots, frt. alld on 100 lbs lb 1.05 - —
Standard vis. (15,400 cps.) 50-lb. bgs., c.l., frt. alld lb. .69 - —
50-lb bgs., 2,000-lb lots and more same basis lb. 76 - —
50-lb bgs., smaller lots, frt. alld.

Methyl chloride, indust. cyls., frt. equald lb. .22¼- —
tanks, multi-unit, same basis. .16¼- —
tanks, single unit, same basis, lb 12¾- —

Methyl chloride, refrigerator mfrs., cyls., dlvd lb. .48¾- —
Other consumers & service men, cyls, dlvd lb 67¾ —

Methyl chloroform (see 1,1,1-Trichloroethane).

Methyl cinnamate, cns lb. 1.55 1.80

Methyl ethyl ketone, dms., c.l., dlvd lb. .15 —
dms., t.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .12½- —

2-Methyl-5-ethyl pyridine, dms., c.l., works lb. 45 —
dms., t.c.l., works lb. 45¾- —
tanks, works lb. 43 —

Methyl formate, refd., dms lb. .35 .40
Tech., non-ret dms., any quantity, works lb. .10 - —
tanks, works lb .07 - —

a-D Methyl glucoside, tech., 100-lb multiwall paper bgs., c.l., works lb. .26 - —
100-lb multiwall paper bgs., t.l., min 23,000 lbs., works lb. .27 - —
100-lb multiwall paper bgs., t.t.l., works lb. .28 - —

Methyl heptin carbonate, bots lb. 27.25 -29.00

Methyl p-hydroxybenzoate, bb dms lb 1.90 2.00

Methyl ionone standard, cns, dms. lb 3.40 3.85

Methyl isoamyl ketone, dms., c.l., dlvd lb. .20 —
dms., t.c.l., dlvd. lb. .20½- —
tanks, dlvd lb. .17½- —

Methyl isobutyl carbinol (see Methyl amyl alcohol).

Methyl isobutyl ketone, dms., c.l., dlvd lb 17 —
dms., t.c.l., dlvd lb .18½ —
tanks, dlvd lb. .14½- —

Methyl methacrylate, dms., c.l., t.l., frt equald, with Belle, W. Va lb. .31 - —
dms., smaller lots, same basis lb. 31½- —
tanks, same basis lb. 29 —

Methyl naphthyl ketone, cryst., cns lb. 2.45 4.30

Methyl parahydroxybenzoate (see p-Hydroxybenzoate)

Methyl parathion, tech., 80% dms., frt alld E lb .84 - —

Methyl parathion prices 2c. per lb higher in West

Methyl roseaniline chloride, NF., 5-lb fib dms lb 6.90 - —

Methyl salicylate, dms., t.l., frt. alld lb. .60¼ —
dms., t.c.l., same basis lb. .62½ 67½

Methyl testosterone, USP, 100-gram bots gram. No Prices.

2-Methyl-5-vinyl pyridine, 40-dm lots or more, f.o.b. works lb. 1.32 - —
5-39 dm lots, same basis lb. 1.37 - —
tanks, same basis lb. 1.27 - —

Methyl violet toner, molybdated, PMA, bbls., dlvd, E of Rockies lb. 3.95 - —
Tungstated, PTMA, bbls., same basis lb. 4.35 - —

Methyl violet prices 1c. higher W. of Rockies.

Methylene blue, NF, crystals, 100-lbs., frt. equald lb. 4.10 - —

Methylene chloride, tech., straight or assorted, dms, c.l. or t.l., dlvd lb. .12½- —
dms, t.c.l., t.t.l., dlvd lb. .15¾- —
tanks, 4,000-gal. min., dlvd lb. .11¼- —

b-Methylnaphthalene, 32°C., m.p., dms., works lb .90 - —

Methylpentanediol (see Hexylene glycol).

Methylphenylpyrazolone (see 1-phenyl-3-methyl-pyrazolone-5).

Methylthionine chloride (see Methylene blue).

Mica, dry-grd, paint, plastic, 100 mesh, bgs, c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb .03 - —
wet-grd., biotite, bgs., c.l., works, frt alld E lb. .06½- —
bgs, t.c.l, ex-whse lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh works, frt alld E lb. .08¼- —
bgs, t.c.l, ex-whse or freight alld E lb. .09 - —

Mica, wet-grd., rubber, bgs., c.l., works, frt alld E lb. .08 - —
bgs, t.c.l, ex-whse, or frt. alld E lb. .08¾- —
wallpaper bgs, c.l, works, frt. alld E lb. .08¾- —
bgs, ex-whse or frt alld E lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt alld E lb. .08¼- —

Mica, wet-grd, W. of Miss ½c. higher; W. of Rockies 1c. higher.

Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 - .12

Mineral black, bgs., works lb. .0160- .0673

Mineral oil, white tech, 50-65 vis., non ret dms, c.l., f.o.b. refy gal. .70 - —
non-ret, dms., t.c.l., same basis gal. .75 - —
tankcars, refy. gal. .54 - —
65-75 vis., non-ret, dms., c.l., same basis gal. .70½- —
non-ret, dms., t.c.l., same basis gal. .75½- —
tankcars, refy. gal. .54½- —
NF, 80-90% vis., non-ret, dms., c.l., same basis gal. .71 - —
non-ret, dms., t.c.l., same basis gal. .76 - —
tankcars, refy. gal. .55 - —
135-138 vis., non-ret, dms., c.l., same basis gal. .77 - —
non-ret, dms., t.c.l., same basis gal. .82 - —
tankcars, refy. gal. .61 - —
145-155 vis., non-ret, dms., c.l., same basis gal. .83 - —
non-ret, dms., t.c.l., same basis gal. .88 - —
tankcars, refy. gal. .67 - —
USP, 180-190 vis., non-ret, dms., c.l., same basis gal. .85 - —
non-ret, dms., t.c.l., same basis gal. .90 - —
tankcars, same basis gal. .69 - —
200-210 vis., non-ret, dms., c.l., f.o.b. refy gal. .875 - .90
non-ret, dms., t.c.l., same basis gal. .925 - —
tankcars, refy. gal. .69 - .715
340-350 vis., non-ret, dms., c.l., f.o.b. refy gal. .92½- —
non-ret, dms., t.c.l. gal. .97½- —
tankcars, refy. gal. .76½- —

(For dlvd. N.Y. prices add 2c. for c.l. and 3c. for t.c.l.).

Mineral orange, American, bbls., c.l., works lb. .16 - —
bbls., t.c.l., same basis lb. .17 - —

Mineral spirits, petroleum, odorless, tankcars, New Jersey gal. .29 - —
New York gal. .305 - —
Houston, Texas gal. .25 - —
regular, tankcars, New Jersey and New York gal. .18 - —
Group 3 gal. .12875- —
Houston, Texas gal. .145 - —
140 F. flash, New York, New Jersey at terminal gal. .205 - —
Houston, Texas gal. .17 - —

Mink oil, dms. lb. 2.75 - —

Mirbane oil (see Nitrobenzene).

MNPT maroon toner, bgs., c.l., works lb. 6.30 - —

Molasses, blackstrap, feed grade, tanks, New Orleans gal. .14½- —
tanks, New York gal. .15½- .16

Molybdated orange, bbls. lb. .49 - —

Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo. 7.84 - —
325 mesh, ctns., works kilo. 9.13 - —

Molybdenum trioxide, purif., dms., works lb. 1.15 - —
Tech., chemical, dms., works, basis Mo. content lb. 1.48 - —
Tech., metallurgical, dms., works, basis Mo. content lb. 1.47 - —

Molybdic acid, 84%, dms., works. lb. 1.05 - 1.15

Monoallylamine, dms., c.l., dlvd lb. .965 - —
dms., c.l., dlvd. lb. .995 - —
tanks, dlvd lb. .96 - —

Monobutylamine, dms., c.l., dlvd, E. of Rockies lb. .57½- —
dms., t.c.l., same basis lb. .59 - —
tanks, same basis lb. .55 - —

Mono-tert-butyl-m-cresol, dms., c.l., works lb. .55 - —
dms., t.c.l., works lb. .56 - —
tanks, works lb. .54 - —

Monochloracetic acid, purif. (see Chloroacetic acid, mono).

Monochlorobenzene, dms., c.l., frt. alld, or dlvd, E lb. .10½- —
dms., t.c.l., same basis lb. .11½- —
tanks, same basis lb. .08¾- —

Monochlorobenzene prices in the West 1¾c. higher.

Monoethanolamine, dms, c.l., dlvd, E lb. .27½- —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —

Monoethylaliphanaphthylamine (see n-Ethyl-a-naphthylamine).

Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd, E, 100% basis lb. .38½- —
dms., t.c.l., dlvd, E., 100% basis, lb .40 - —
tanks, dlvd, E., 100% basis lb. .35 - —

Monoethylaniline (see N-Ethylaniline).

Monoethylorthotoluidine (see N-Ethyl-o-toluidine)

Monoisopropanolamine, dms., c.l., dlvd, E lb. .27½- —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —

Monoisopropylamine, anhyd., dms., c.l., dlvd lb. .33½- —
dms., t.c.l., same basis lb. .35 - —
tanks, same basis lb. .31 - —

Monomethylamine, anhyd., cyls., t.c.l., frt. equald., 100% basis lb. .30 - —
tanks, 100% basis lb. .26 - —
30-35% soln., dms., c.l., frt. equald, 100% basis lb. .36 - —
dms., t.c.l., frt. equald, 100% basis lb. .36½- —
tanks, frt. equald., 100% basis, lb. .26 - —
40% soln., dms., frt. equald., 100% basis lb. .33 - —
dms., t.c.l., frt. equald., 100% basis lb. .33½- —
tanks, frt. equald, 100% basis lb. .26 - —

Monopentaerythritol, tech. bgs., c.l., dlvd lb. .29 - —
bgs., l.c.l. lb. .30 - —

Monopotassium glutamate, dms., 1,000 lb lots, frt alld lb 3.05 - —
dms, 100 lb lots, same basis lb 3.25 - —

Monosodium glutamate, dms., dlvd. lb. 1.07 1.15

Monosodium phosphate (see sodium phosphate, monobasic).

Montan wax, Calif., refd., bgs lb. .27 .28
Imp., crude, Bohemian, bgs lb. .25 - .26
German, bgs. lb. .25 - .26

Morphine, cns, 100-oz, f.o.b. works oz. 12.35 - —

Morphine hydrobromide, cns., 100-oz., f.o.b works oz 9.90 - —

Morphine hydrochloride, NF, cns., 100-oz., f.o.b works oz. 9.90 - —

Morphine sulfate, USP, cns., 100-oz., f.o.b works oz. 9.90 - —

Morpholine, dms., c.l., dlvd, E lb. .55½- —
dms., t.c.l., dlvd, E lb. .56½- —
tanks, dlvd, E lb. .52¾- —

Muriatic acid (see Hydrochloric acid).

Musk, syn. ambrette, fib dms., 100-lb lots lb 4.40 4.90
cns., 25-lb lots lb 4.50 5.00
Ketone, fib dms., 100-lb lots lb 4.60 5.10
cns., 25-lb lots lb 4.70 5.20
Xylol, fib dms., 100-lb lots lb 1.26 —
cns., 25-lb lots lb 1.40 —

Mustard seed, Danish, yellow, bgs. lb. .10 - —
Montana, yellow, bgs lb. .10½- —
Oriental, bgs. lb. .09 - —

Mustard, oil, syn., bots lb. 1.60 1.85

Myristic acid, bgs lb. 23½- .25¼
tanks lb. .22½- —

Myrrh gum, cs lb. .65 .75

N

Naphtha, high solvency (see Solvent naphtha, petroleum).

Naphtha, petroleum, cleaner's (see Cleaner's naphtha).

Naphtha, VM&P, petroleum, tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 —

Naphthalene, crude, dom., 78°, tanks, frt. equald lb. .06¼- .06¾
Refd., indust., chipped, crushed, bgs., frt. equald lb. .14½- —
tanks, same basis lb. .11¾- —
Refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .15½- —
cs. 50 lbs, c.l. same basis. lb. .15¾- —
1-lb pkgs, c.l. same basis. lb. .18½- —

a-Naphthol, dms., frt. alld lb. 1.02 —
b-Naphthol, tech, flake, bbls., c.l., works lb. .34 - —
bbls, t.c.l., works lb. .36 - —

Naphthol ITR, red toner, bbls., works lb 5.00 - —

1-Naphthol-3,6-disulfonic 8-amino acid (see H acid)

1-Naphthol-4 sulfonic acid (see Nevile and Winther's acid)

1-Naphthol-5-sulfonic acid (see L acid)

1-Naphthol-5-sulfonic 8-amino acid (see S acid)

2-Naphthol-6,8-disulfonic acid (see Gamma acid).

Naphthol sulfonic mixed acid (see Cleve's acid)

a-Naphthylamine, dms., frt. alld lb. .53 - —

b-Naphthylamine, tech, flake, bbls., works lb. 1.60 - —

1-Naphthylamine-5-sulfonic acid (see Laurent's acid)

2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).

2-Naphthylamine-1-sulfonic acid (see Tobias acid)

2-Naphthylamine-6-sulfonic acid (see Broenner's acid)

2-Naphthylamine-7-sulfonic acid (see F acid).

Naringin, fib dms lb. 8.50 —
Neatsfoot oil, 15° cold test, dms lb. .29 Nom.
20° cold test, dms. lb. .28 Nom.
30° cold test, dms. lb. .27 Nom.

Neocinchophen, USP, dms., frt, adjusted lb. 7.00 8.00

Neomycin sulfate, fib dms, 1-kilo basis, activity gram. .18 - —
fib dms, 100-999 gram lots, basis activity gram. .25 - —
Tech., fib dms gram. .13½- —

Neopentylglycol, dms., c.l., dlvd lb. .32 - —
dms, t.c.l, same basis lb. .33 - —

Nerol, dms lb 4.75 —

Neroli oil, NF, French, bots lb. 425.00 -575.00
Tunisian, bots lb. 400.00 —

Nerolin, cns. lb 2.45 2.85

Neville and Winther's acid, dms., frt. alld lb. 1.50 - —

Niacinamide (see Nicotinamide).

Nickel acetate, bbls, dlvd lb. .68½- .73¼
Nickel carbonate, bbls, dlvd lb. 78¼- .85¾
Nickel chloride, bbls, dlvd lb. .37 .40
Nickel formate, bbls, ton lots, frt. alld lb. .72 .73

Nickel metal, electro cathodes, cs., works lb .74 —
Nickel nitrate, dms, frt. alld lb. .31½- .33½
Nickel oxide, black, bbls. lb. .85 - —
Green, bbls lb. .84 - —
Nickel sulfate, bgs., c.l., dlvd lb. .28 - —
bgs., l.c.l., dlvd lb. .28½- .30

Nicotinamide, USP, 50-kilo, dms., 100 kilos., dlvd kilo. 5.75 - 6.50
dms., less than 100 kilos, dlvd. kilo. 6.25 - 7.00

Nicotinamide hydrochloride, 50-kilo dms., dlvd kilo. 6.50 - 7.50

Nicotine sulfate 40%, dealers, 50-lb. dms frt alld lb 1.20 - —
40% manufacturers, 500-lb. dms., frt. alld lb 1.05 - —

Nicotinic amide, USP (see Nicotinamide).

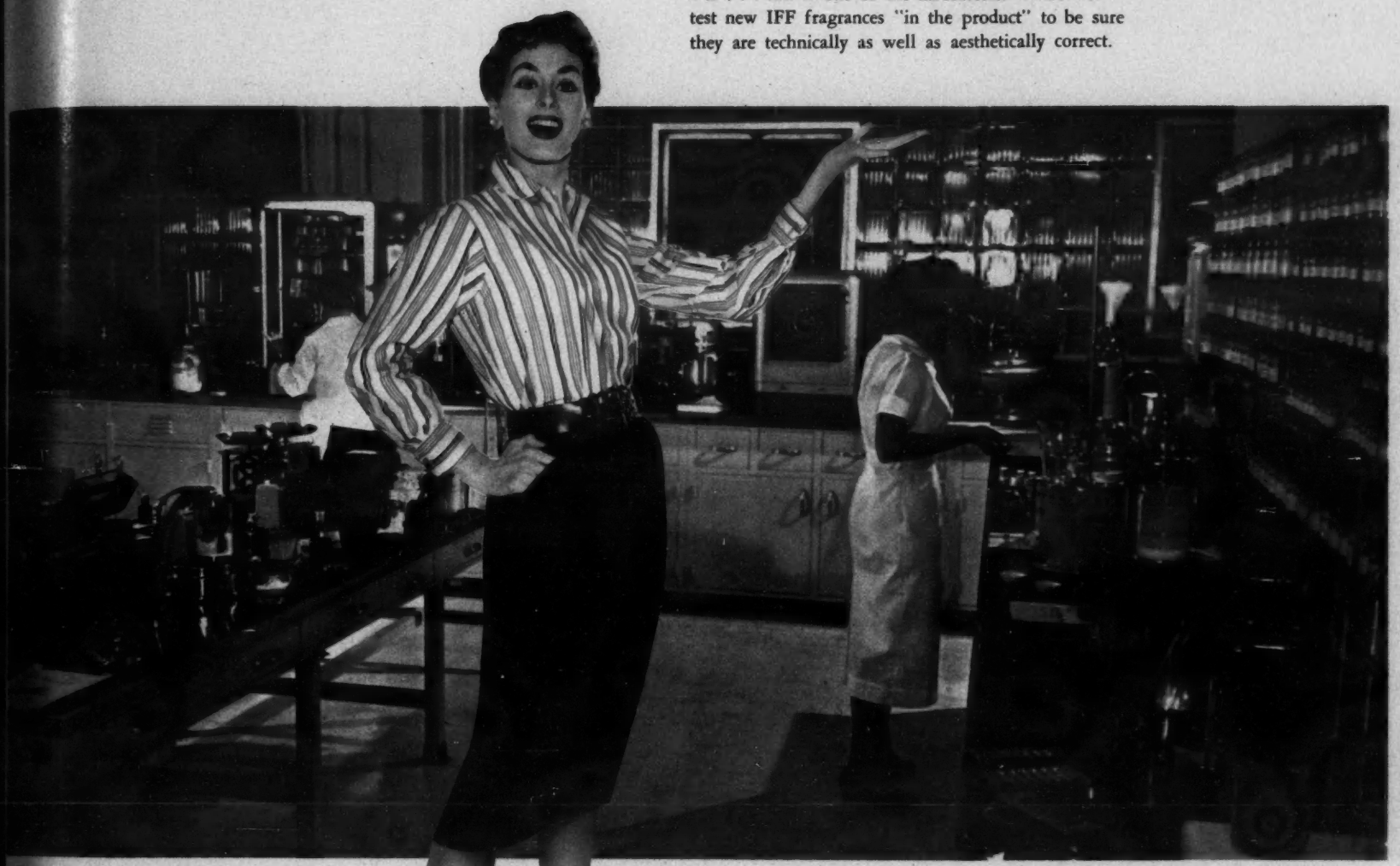
Niger seed, bgs. lb 10¼- —

Nikethamide, dbys. lb 5.00 - —

Nitric acid, 36° Be., cbys., c.l., works E 100 lbs. 5.75 —
cbys., t.c.l., works E 100 lbs. 6.05 6.35
38° Be., cbys, c.l., works E 100 lbs 6.25 —
cbys., t.c.l., works E 100 lbs 6.55 7.35
40° Be., cbys., c.l., works E 100 lbs. 6.75 - —
cbys., t.c.l., works E 100 lbs. 7.05 7.85
42° Be., cbys., c.l., works E 100 lbs. 7.25 —
cbys., t.c.l., works E 100 lbs. 7.55 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —

All this for me?

Yes . . . this is one of the laboratories where we test new IFF fragrances "in the product" to be sure they are technically as well as aesthetically correct.



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Service facilities, such as this Cosmetic Laboratory at IFF, New York, fully test newly-created perfumes and aromatic materials for shelf-life and compatability in all types of consumer products where fragrance is a factor.

In addition to the imaginative artistry of the perfumer, the creation of a successful new fragrance requires a thorough technical understanding of its use in the product for which it is produced. It is only with such thoroughness that truly outstanding perfumes can be developed to assure your new product effective and lasting sales appeal.

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Creators and Manufacturers of Flavors, Fragrances and Aromatic Chemicals

ARGENTINA AUSTRIA BELGIUM BRAZIL CANADA ENGLAND FRANCE GERMANY HOLLAND ITALY NORWAY SOUTH AFRICA SWEDEN SWITZERLAND U.S.A.

BENZOIC ACID
MALEIC ANHYDRIDE
BENZOIC ACID
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HEYDEN CHEMICAL DIVISION
HEYDEN NEWPORT CHEMICAL CORPORATION

FINE HEYDEN CHEMICALS

Nitric Acid—Parachlorophenol

Nitric acid, CP, NF, consumer, cbys., extra, c.l., works	lb.	.18½	—
cbys., extra, l.c.l., works	lb.	.20	—
5-pint bots., extra, cs., c.l., same basis	lb.	.22½	—
5-pint bots., extra, cs., l.c.l., same basis	lb.	.24	.25
dms., frt. alld	lb.	.99	—
4-Nitro-2-aminophenol, tech., paste, dms., l.c.l., works	lb.	.64	—
m-Nitroaniline, cryst., dms., frt. alld	lb	1.15	—
Paste, dms., frt. alld., 100% basis		1.10	—
o-Nitroaniline, flaked, dms., t.l., frt. alld	lb.	.49	—
dms., t.l., frt. alld	lb.	.51	—
o-Nitroaniline orange toner	kgs.	1.50	—
p-Nitroaniline, c.l., t.l., dms., 20,000 lb min., dlvd	lb.	.44½	—
dms., l.c.l., same basis	lb.	.46½	—
o-Nitroanisole, tech., tanks, frt. alld.	lb.	.36	—
p-Nitroanisole, tech., solid, dms., frt. alld	lb.	.72	—
Nitrobenzene, dbl. dist., dms., c.l., frt. alld	lb.	.13	—
dms., l.c.l., frt. alld.	lb.	.14	—
tanks, frt. alld.	lb.	.11	—
p-Nitrobenzoic acid, dms., c.l., works	lb.	.63	—

Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works	lb.	.39½	—
bbls., l.c.l., same basis	lb.	.42½	—
18-25 cps., bbls., c.l., same basis	lb.	.41½	—
bbls., l.c.l., same basis	lb.	.44½	—
250-400, 600-1,000 seconds, bbls., l.c.l., same basis	lb.	.44½	.47½
Spirit soluble, 30-35 cps., ¼, ½ seconds, bbls., c.l., same basis	lb.	.44	—
bbls., l.c.l., same basis	lb.	.47	—
5-6 cps., 40-60 seconds, bbls., c.l., same basis	lb.	.43	—
bbls., l.c.l., same basis	lb.	.46	—
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.			
o-Nitrochlorobenzene, dms., c.l., frt. alld	lb.	.15	—
dms., l.c.l., same basis	lb.	.16	—
tanks, same basis	lb.	.13	—
p-Nitrochlorobenzene, dms.	lb.	.26	.27
2-Nitro-p-cresol, tech., dms., dlvd	lb.	.88	—
Nitroethane, dms., c.l., dlvd. E	lb.	.28½	—
dms., l.c.l., dlvd. E	lb.	.30	—
tanks, dlvd. E	lb.	.26	—
Nitroethane prices West of Rockies are 1c. higher			
Nitrogen solutions, direct application, tanks, f.o.b. works	unit-ton.	1.64	—
Manufacturing type, same basis	unit-ton.	1.32	—

Nitrogen tetroxide, indust., tankcars, f.o.b. Hopewell, Va	lb.	.065	—
Cyls., t.l., min. 5 tons, same basis	lb.	.07½	—
Cyls., l.c.l., t.l., same basis	lb.	.15	—
Nitrogenous process tankage, bulk, works	unit-ton.	4.50	5.00
Nitrogenous sewage sludge, bulk, f.o.b. Chicago, works	unit-ton.	3.50	—
(The foregoing price is per unit NH_3, plus 50c. per unit a.p.a., bulk, f.o.b. producers' works, Chicago.)			
Nitromethane, dms., t.l., dlvd. E	lb.	.26	—
dms., l.t.l., dlvd. E	lb.	.27½	—
Nitromethane prices West of Rockies are 1c higher			
a-Nitronaphthalene, bbls., frt. alld.	lb.	.31	—
o-Nitrophenol, dms., works, frt. equald	lb.	.94	—
p-Nitrophenol, dms., c.l., frt. alld.	lb.	.45	—
dms., l.c.l., frt. alld	lb.	.47	—
1-Nitropropane, dms., c.l., frt. alld, E. of Rockies	lb.	.28½	—
dms., l.c.l., same basis	lb.	.30	—
tanks, same basis	lb.	.26	—
1-Nitropropane prices West of Rockies are 1c. per lb higher.			
2-Nitropropane, dms., c.l., frt. alld, E of Rockies	lb.	.18½	—
dms., l.c.l., same basis	lb.	.20	—
tanks, same basis	lb.	.16	—
m-Nitrotoluene, tech., dms., frt. alld.	lb.	.50	—
o-Nitrotoluene, dms., c.l., frt. alld	lb.	.15	—
dms., l.c.l., frt. alld.	lb.	.16	—
tanks, frt. alld.	lb.	.13	—

p-Nitrotoluene, tech., cast, dms., c.l., works	lb.	.37½	—
dms., l.c.l., works	lb.	.38	—
flake, dms., c.l., t.l., works	lb.	.37½	—
dms., l.c.l., works	lb.	.38	—
m-Nitro-p-toluidine, dms.	lb.	1.25	—
Nonylphenol, dms., c.l., frt. alld.	lb.	.22½	—
dms., l.c.l., frt. alld.	lb.	.23½	—
tanks, frt. alld.	lb.	.20	—
Nonylphenol prices on shipments to Western States are 2c. higher.			
Noscapine, cns.	oz.	8.00	—
Nutmegs, East Indian, whole, bgs.	lb.	1.18	—
West Indian, bgs.	lb.	1.20	—
Nutmeg oil, USP, dist., East Indian, cns.	lb	9.00	12.00
West Indian, cns.	lb	9.00	12.00
Nux vomica, bls.	lb.	.20	—
Powd., bbls., bxs.	lb.	.20	.22

O

Ocher (see iron oxide, yellow, nat.)			
Ocotea cymbarum oil, dms.	lb.	.45	.47
Octane, indust., tanks, Bayonne, N.J.	gal.	.20	—
1-Octanol, tech., dms., c.l., dlvd., Zone 1	lb.	.43½	—
dms., l.c.l., dlvd., Zone 1	lb.	.45½	—
tanks, dlvd., Zone 1	lb.	.41	—
Octyl alcohol, perfumers grade, bots.	lb.	1.60	3.25
Octyl alcohol, tech. (see 1-Octanol, tech.)			
tert-Octylamine, dms., c.l., t.l., f.o.b. works	lb.	.54½	—
dms., l.c.l., same basis	lb	.55	—
Octylphenol, bgs., c.l., works	lb.	.22½	—
bgs., l.c.l., works	lb	.23	—
tanks, works	lb	.21½	—
Octylphenol in dms., 1¢c. higher			

OILS

Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liquid, dms.	lb.	.15½	.16
tanks	lb.	.14	.14¼
Oleic acid, dbl.-dist. (white), dms.	lb.	.19¾	.22¼
tanks	lb.	.17¼	—
S. D., dms.	lb.	.18¾	.21¼
tanks	lb.	.16¼	—
Oleum (see Sulfuric acid, fuming).			
Olibanum gum, siftings, cs.	lb.	.15	.20
Tears, cs.	lb	22	.30
Olibanum oil, bots.	lb	5.00	7.65
Extra fine, bots.	lb	8.00	9.50
Olive oil, edible, dms., spot, ex whse.	gal.	2.35	2.40
Olivine, crude, works	ton	12.00	—
20 mesh, works	ton	15.00	—
100 mesh, works	ton	20.00	—
Opium, USP, cns., 25-lbs., f.o.b. works	oz	19.20	—
gran., cns., 50 lbs., same basis	oz.	21.65	—
powd., cns., 50 lbs., same basis	oz	21.65	—
Orange oil, expressed, USP, Calif., cns., dms	lb	.70	.90
Calif., sweet, cns., dms	lb.	.60	—
Florida, cns., dms	lb	0	.45
Messina, cns.	lb	3.25	5.00
West Indian, bitter, cns., dms	lb.	2.50	3.50
Orange peel, bitter, Haitian, bls	lb.	.18	.20
Sweet	lb	.28	.30

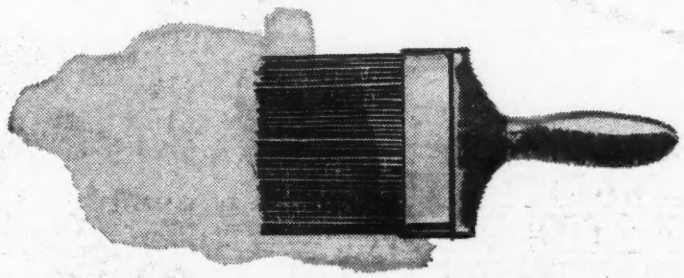
ORANGE PIGMENTS

Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Origanum oil, Spanish, cns.	lb.	1.80	2.30
Orris root, Florentine, bls.	lb.	.55	—
powd., bbls., bxs.	lb.	.65	—
Verona, bls.	lb.	.35	—
powd., bbls., bxs.	lb.	.45	—
Orthoanisidine (see o-Anisidine).			
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)			
Orthochloroaniline (see o-Chloroaniline).			
Orthochlorobenzoic acid (see o-Chlorobenzoic acid).			
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline)			
Orthochlorophenol (see o-Chlorophenol).			
Orthocresol (see o-Cresol)			
Orthocresotinic acid (see 2,3-Creosotic acid).			
Orthodichlorobenzene (see o-Dichlorobenzene).			
Orthonitroaniline (see o-Nitroaniline)			
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).			
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).			
Orthonitrophenol (see o-Nitrophenol).			
Orthonitrotoluene (see o-Nitrotoluene).			
Orthophenetidine (see o-Pheretidine)			
Orthophenylphenol (see o-Phenyl phenol).			
Ortho-tertiary amylphenol (see o-tert-Amylphenol).			
Orthotolidine (see o-Tolidine base)			
Orthotoluidine (see o-Toluidine)			
Ouabain, USP, bots.	gram	3.00	4.00
Ouricury wax, crude, bgs.	lb.	.52	—
Refd., pure, bgs.	lb.	.54	.56
Oxalic acid, bgs., c.l., works	lb.	.18	—
bgs., 10,000-lb. lots, works	lb.	.19	—
bgs., smaller lots, works	lb.	.20½	—
Oxalic acid in drums is priced ½c. per lb higher.			
b-Oxynaphthoic acid, pigment manufacture, dms., frt. alld	lb.	.912	—
Dyestuff manufacture, dms., same basis	lb	1.03	1.14
Oxyquinolin sulfate, cns., 100-lb. lots, works	lb	4.75	5.00
cns., smaller lots, works	lb	4.92	5.17

P

Palm oil, clarif., dms.	lb.	.14¾	.15¼
tanks, New York	lb.	.12	—
Palm oil acid, double dist., dms.	lb.	.16	.18½
tanks	lb.	.13½	—
single dist., dms.	lb.	.15½	.18
tanks	lb.	.13	—
Palmarosa oil, cns.	lb.	4.90	6.00
Papain, powd., bots.	lb.	3.25	10.00
Papaverine hydrochloride, nat. or syn., USP, cns., 25-oz. to 100-oz. lots	oz.	5.00	—
cns., smaller lots	oz.	5.65	5.20
Papaverine sulfate, nat. or syn., USP, cns	oz	7.10	7.35
Paprika, Bulgarian, bgs.	lb.	.32	—
Hungarian, bgs.	lb.	.33	—
Spanish, bgs.	lb.	.30	—
Yugoslavian, bgs.	lb.	.38	—
Para-aminobenzoic acid (see p-Aminobenzoic acid).			
Parachlorobenzoic acid (see p-Chlorobenzoic acid).			
Paramethylphenylcinchonic acid (see Neocinchophen).			
Paranitrobenzoic acid (see p-Nitrobenzoic acid)			
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).			
Para-aminophenol (see p-Aminophenol).			
Parachlorophenol (see p-Chlorophenol).			



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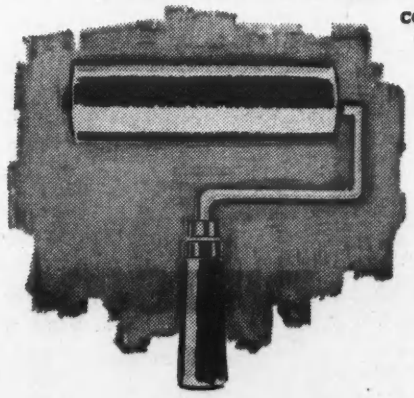
Now From Delhi Taylor superior quality VM&P NAPHTHA for the Paint & Varnish Industry

Delhi high quality VM&P Solvent 230 is refined from selected petroleum stocks, for use in paint, varnish, protective coatings, rubber compounding, tape, ink thinning, metal cleaning, hide degreasing, polish formulations and other chemical applications.

VM&P Solvent 230 has a mild pleasing odor, is uniform, features high solvency (KB-40) and high flash point (50°F). Delhi VM&P Solvent 230 is available from our plants and terminals throughout the United States...

COMPLETE SPECIFICATIONS WILL BE FURNISHED UPON REQUEST.



CHEMICAL DIVISION

DELHI-TAYLOR OIL CORPORATION

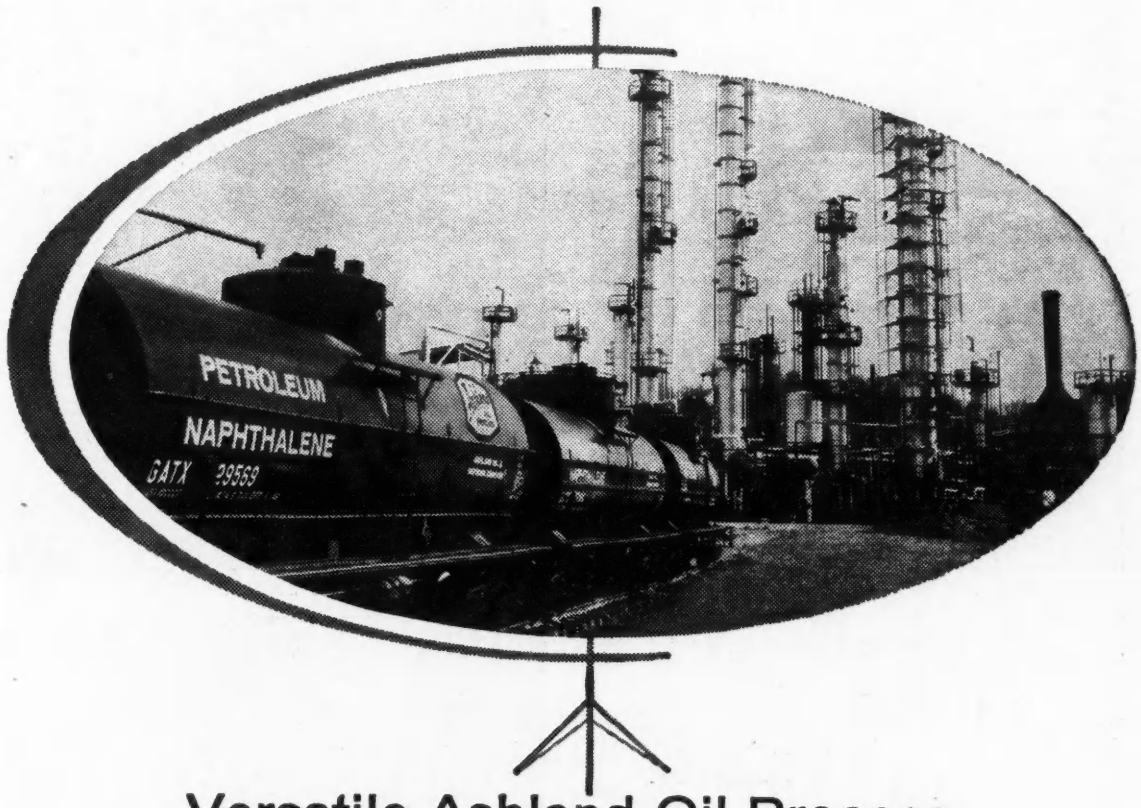
FIDELITY UNION TOWER, DALLAS 1, TEXAS • 415 MADISON AVE., NEW YORK 17, N. Y.

CORPUS CHRISTI • CHICAGO • CHARLESTON, S. C. • BATON ROUGE • HOUSTON

Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls. lb. 1.30 - —
Chlorinated, kgs. lb. 1.41 - —
Paraffin, crude, scale, white, 123°-127°F., ASTM. tanks, refy. lb. .0655- .0660
Fully refd., 122°-124°F., ASTM, lb. .0765- —
125°-127°F., ASTM, tanks, refy. lb. .0765- —
130°-132°F., ASTM, tanks, refy. lb. .0765- —
132°-134° F., ASTM, tanks, refy.
135°-137°F., ASTM, tanks, refy. lb. .0765- —
AMP temperatures are an arbitrary 3°F higher than ASTM.
Paraffin oil, pale, 100-110 vis., at 100°F., tanks e a s t coast refy gal. .14 - —
Paraffin wax (see Paraffin)
Paraformaldehyde 91% flake, bgs., c.l., frt. alld lb. .10 - —
bgs., l.c.l., frt. alld lb. .12 - .13
91%, powd., bgs., c.l., ex whse. lb. .1715- —
bgs. l.c.l., ex whse lb. .1865- —
Paraformaldehyde. USP-X, fib. dms., c.l. lb. .19 - —
fib dms., 1,000-lb. lots lb. .20 - —
fib. dms., smaller lots lb. .21½- —
Paraldehyde tech., 98%, 55-gal. dms., t.l., dlvd. E lb. .14 - —
55-gal. dms., l.c.l., dlvd. E lb. .15½- —
tanks, dlvd. E lb. .11½- —
Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene)
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion ethyl, dms., frt. alld. lb. .84 —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide).
Passion flower herb, bls. lb. .35 .40
Patchouli oil, imp., cns. lb. 5.60 - 6.50
Peach kernel oil. USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb. bbls., dlvd E at Rockies lb. 1.00 —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, old process, 45%, bgs., f.o.b., mills ton.65.00 - —
solvent, same basis ton.63.50 - —
Peanut oil crude, tanks, f.o.b. mills, lb. .15⅝- —
Refd., dms. lb. .20½- .20¾
tanks lb. .18¾- —
Pectin, dom., NF, citrus, powd., 100 kilos, f.o.b. shipt. pt. kilo. 4.52 - —
Pelargonic acid, dms., c.l., dlvd. E lb. .27½- —
ton lots, same basis lb. .28½- —
tanks, same basis lb. .25 - —
Penicillin, potassium, cryst., bulk, 1,000,000 units. .018 - —
Penicillin, procaine, cryst., bulk, 1,000,000 units. .020 - —
Pennyroyal oil, USP, imported, cns. lb. 2.35 - 2.80
Pentachlorophenol, 50-lb. bgs., c.l., t.l., works, frt. equald. lb. .21 - —
bgs., less than ton-lots, same basis. lb. .29 - —
bgs., c.l., t.l., 2,000 lb. minimum, same basis lb. .22½- —
Pentachlorophenol in dms. 1c. higher.
Pentaerythritol, tech., bgs., c.l., dlvd. lb. .29 - —
bgs., l.c.l., dlvd. lb. .30 - —
Pentaerythritol, di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust. tanks, Tex. refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more lb. 6.00 - —
Pepper, black, Malabar, bgs. lb. .45½- —
Lampong, bgs. lb. .45½- —
Red, Funtuas, bgs. lb. .32 - —
Japanese, Hontoka, bgs. lb. .37½- —
Santaka, bgs. lb. .31½- —
Sudanese, bgs. lb. .36 - —
White, Muntok, bgs lb. .55 - —
Peppermint leaves, dom., USP, bls., dms lb. No stocks.
imp., USP, dms. lb. .85 - .90
Peppermint oil, nat., dms. lb. 4.40 - —
Redist., USP, dms. lb. 4.65 - —
Perchloroethylene dms., c.l., or t.l., dlvd lb. .13½- —
dms., l.c.l., dlvd. lb. .15¼- —
tanks, dlvd. lb. .11¾- —
tanktruck, 1,000 gal. min. dlvd lb. .12¼- —
Peri acid, dry bbls., frt. alld lb. 1.60 - —
Paste, bbls. frt. alld lb. 1.55 - —
Peru balsam, dms lb. 1.15 - 1.50
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil South American, cns., dms lb. 2.30 —
Petrolatum, NF, cream, dms., c.l., refy lb. .085 - 08625
dms., l.c.l., dlvd. lb. .11125-11250
tanks, refy. lb. .0625- .06375
NF, extra amber, dms., c.l., refy. lb. .07625- —
dms., l.c.l., dlvd. lb. .1025- —
tanks, refy. lb. .05375- —
NF, soft yellow, dms., c.l., refy lb. .07625- —
dms., l.c.l., dlvd. lb. .1025- —
tanks, refy. lb. .05375- —
USP, lily white, dms., c.l., refy. lb. .09125-.09675
dms., l.c.l., dlvd. lb. .1175- .1225
tanks, refy. lb. .06875- —
USP, snow white, dms., c.l., refy. .09625- —
dms., l.c.l., dlvd. lb. .1225- —
tanks, refy. lb. .07375- —
Full tankwagons of petrolatum are ¼c. more per lb. than tankcars.
Petroleum pitch (see Asphalt, petroleum).

PETROLEUM PRODUCTS
Petroleum product quotations are listed individually For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works. lb. .16½- .18¾
non-ret. dms., l.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17
50-55% sulfuric content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., c.l., frt. alld. E lb .91 - —
dms., l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms., same basis lb. 1.08 - —
Phenobarbitol, USP, dms., 100-lbs., frt. alld lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%), non-ret. dms., frt. alld E. of Rockies lb. .17¼- —
non-ret. dms., l.c.l., same basis. lb. .18¼- —
tanks, same basis lb. .15¼- —
82-84% (cresol 16-18%), non-ret. dms., c.l., same basis lb. .17 - —
non-ret. dms., l.c.l., same basis. lb. .18 - —
tanks, same basis lb. .15 - —
39°C., or above, tar dist., non-ret. dms., c.l., same basis lb. .18½- —
non-ret. dms., l.c.l. lb. .19½- —
tanks, same basis lb. .16½- —
Phenol, USP, syn., dms., c.l., t.l., frt. alld lb. .19 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .17 - —
Phenolphthalein, USP or yellow, 250-lb. dm., 2,000 lbs., frt. alld lb. 1.30 - —
250-lb. dm., same basis lb. 1.35 - —
Phenothiazine drench, fib. dms., t.l., dlvd lb. .46 - —
fib. dms., ton lots, dlvd lb. .49 - —
NF, fib. dms., t.l., dlvd lb. .45 - —
fib. dms., ton lots, dlvd lb. .48 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol).
Phenylacetaldehyde, soln., 50%, bots. lb. 2.15 - 2.35
100%, bots. lb. 3.80 - 4.00
Phenylacetic acid, pure, cryst., cns. lb. 1.25 - 1.75
dl-Phenylalanine, dms., 1-kilo kilo.65.00 - —
l-Phenyl-3-carbethoxy pyrazolone-5, fib. dms., 200-lb. lots, dlvd. E lb. 3.45 - —
fib dms., smaller lots, dlvd. E lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .50 - —
dms., l.c.l., dlvd. E lb. .51½- —
tanks, dlvd. E lb. .47½- —
m-Phenylenediamine, dms., c.l., t.l., frt. alld lb. 1.08 - —
l.c.l., l.t.l., same basis lb. 1.10 - —
o-Phenylenediamine, coml, fib. dms, 100 to 1,000 lbs., works. lb. 1.70 - 1.80
p-Phenylenediamine, tech., dms, works lb. 1.53 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
dms., l.c.l., same basis lb. .76¼- —
Phenylethyl acetate, bots. lb. 1.25 1.40
2-Phenylethyl alcohol, extra, dms. lb. 1.14 1.50
Standard, dms. lb. 1.10 1.60
b-Phenylethylamine, dms., 20,000 lbs. or more, frt. alld lb. 1.50 - —
dms. smaller lots, frt. alld lb. 1.70 1.85
Phenylethylphenyl acetate, bots lb. 4.00 4.25
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine 97%, 450-lb. dms. lb. 1.45 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd E. 1.80 - —
fib. dms., smaller lots, dlvd. E lb. 2.10 - —
o-Phenylphenol, dms., l.c.l., works. lb. .48 - .50
p-Phenylphenol, bgs., c.l., works lb. .38¼- —
bgs., l.c.l., works lb. .43 - —
Philippine copal gum, pale, chips, bgs lb. .23¼- .27
nubs, bgs. lb. .33¼- .37
seeds, bgs. lb. .20 Nom.
sorts, bgs. lb. .20 .24
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
CP, bots., works lb.17.75 - —
Tech., fib. dms., works lb.10.45 - —
Phloxin red toner (see Eosin red toner).
Phosgene, ret. cyls., works lb. .15½- —
Phosphate, defluorinated (see under D).
Phosphate rock, Curacao, Atlantic ports, New Orleans ton.46.50 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines. short-ton. 4.989 5.398
66-70%, b.p.l., bulk, c.l., same basis short-ton. 5.849 5.858
70-72%, b.p.l., bulk, c.l., same basis short-ton. 6.429 6.438
Phosphate rock, Florida, land pebble, run of mine, washed, dried, unground, 74-75%, b.p.l., bulk, c.l., same basis. short ton. 7.329 - 7.338
76-77%, b.p.l., c.l., bulk, same basis short-ton. 8.219 8.228
Above Florida prices are based on fuel oil at 2.52 per bbl. and labor at $1.64.



Versatile Ashland Oil Process Relieves World-Wide Naphthalene Shortage

MARCH, 1961 . . . OUT OF ASHLAND, KENTUCKY, tank car after tank car, each containing 10,000 gallons of *highest purity* naphthalene, headed for such companies as Reichhold, American Cyanamid, Sherwin-Williams, Standard Naphthalene Products, and Witco. These cars contained the first shipments of naphthalene to come out of Ashland Oil's *patented* Hydrodealkylation Unit . . . *the world's first Hydeal Unit capable of producing naphthalene from petroleum in commercial quantities!* Capacity: from 75 to 100 million pounds of high purity naphthalene per year, enough to eliminate domestic shortages . . . enough to alleviate world-wide shortages!

BUT MOST IMPORTANT TO YOU and your operations are the product possibilities offered by Ashland Oil's revolutionary Hydeal Unit through its manufacture of petrochemical "building blocks" used in the Fiber, Plastics, Rubber and Coating Industries. Ashland Oil places its complete facilities at your disposal . . . will work with you on all products and potential uses of these petrochemical "building blocks," including all necessary studies and economic evaluations pertaining to your requirements. Look to the future, and look to Ashland Oil as a prime source of supply for high purity naphthalene, benzene, toluene, xylene, and heavy aromatic concentrates. For complete information, call or write: National Account Department, Ashland, Kentucky . . . Phone: 324-1111.

Ashland OIL PRODUCTS

ASHLAND OIL & REFINING COMPANY
ASHLAND, KENTUCKY

Phosphoric acid, food grade, 75%, chys. c.l. works, E. frt. equald	100 lbs.	7.00	—
chys. l.c.l., same basis	100 lbs	7.25	7.75
tanks, t.w., works	100 lbs	5.60	—
80% chys. c.l. frt equald	100 lbs	7.85	—
chys., l.c.l., works	100 lbs	8.10	9.35
tanks, t.w., works	100 lbs	6.00	—
NF 85% chys., c.l., works	100 lbs	8.50	—
chys., l.c.l., works	100 lbs	8.75	9.00
tanks, t.w., works	100 lbs	6.65	—
Phosphorus, amorph., red, dms., t.l., works	lb.	.55	—
dms., smaller lots, works	lb.	.56	.57
white (yellow), solid dms., c.l., works, frt. equald	lb.	.20	.20½
dms., l.c.l., works, frt. equald	lb.	.21½	—
tanks, works, frt. equald,	lb.	.19	—
Phosphorus oxychloride, dms., c.l., works	lb.	.14	—
dms., l.c.l., works	lb.	.15	—
tanks, works, frt. equald	lb.	.12½	—
Phosphorus pentasulfide, powd., dms., c.l., works	lb.	.13½	—
dms. l.c.l. works	lb.	.14½	.15½
Solid, dms., c.l., works	lb.	.11½	—
dms. l.c.l., works	lb.	.12½	.13½
Phosphorus pentoxide, dms., c.l., works	lb.	.1375	.1475
dms., l.c.l., works	lb.	.1475	.1675
Phosphorus sesquisulfide, dms., cs., c.l., works	lb.	.38	—
dms., l.c.l., works	lb.	.39	.40

Phosphorus trichloride, dms., c.l., works	lb.	.14	—
dms., l.c.l., works	lb.	.15	—
tanks, works	lb.	.12½	—
Phthalic anhydride, bgs., c.l., works, frt. equald	lb.	.20	—
bgs., l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.19½	—
Phthalimide, 97-98%, dms., frt. alld	lb.	.65	—
Phthalocyanine blue, full strength, bbls. dlvd. E of Rockies.	lb.	2.90	—
Resinated, bbls., same basis	lb.	2.75	—
Water dispersable, bbls., same basis	lb.	1.52	—
Phthalocyanine blue prices 1c. higher W of Rockies.			
Phthalocyanine green toner, bbls., works	lb.	3.35	—
Resinated, bbls.	lb.	3.00	—
Water dispersable, bbls.	lb.	1.71	—
Phthalocyanine green prices 1c. higher W of Rockies.			
Phthalylsulfacetamide, fib. dms., 1,000-lb. lots or more	lb	5.00	—
NF, fib. dms.	lb	5.20	—
a-Picoline, dms. c.l., works, frt. equald	lb.	.46	.48
dms., l.c.l., works, frt. equald	lb.	.46½	.49
tanks, same basis	lb.	.43	.46
b-Picoline, 98%, dms., t.l., works,	lb.	1.05	—
dms., l.c.l., same basis	lb.	1.15	—
tanks, same basis	lb.	.95	—

b,g-Picoline, 5°C. dms., c.l., works,	lb.	.32½	—
dms., l.c.l., works	lb.	.33	—
g-Picoline, dms., t.c.b., works	lb.	1.60	—
tanks, t.l., same basis	lb.	1.50	—
Picric acid, NF, bbls.	lb.	.85	—
Tech., bbls.	lb.	.50	—
Pigment green B, kgs	lb.	1.55	—
Pilocarpine hydrochloride, USP, bots	oz.	4.75	5.25
Pilocarpine nitrate, USP, bots., vials,	oz.	4.65	5.15
Pimento, Jamaican, bgs	lb.	.68¾	—
Mexican, bgs	lb.	.56	—
Pimento berry oil, NF, dms.	lb.	3.75	9.25
Pimento leaf oil, crude, cns	lb.	2.50	2.60
Pine oil, dest.-dist., dms., l.c.l., works	lb.	.15	—
dms., l.c.l. ex whse. New York,	lb.	.173	—
Steam-dist. dms. ex whse., New York	lb.	.185	—
dms., dlvd	lb.	.188	—
Pineneedle oil, Siberian (see Abies Siberica oil).			
Pink root, bls.	lb.	2.25	—
Piperazine, anhyd., dms., c.l., frt. alld. E	lb.	1.80	—
dms., l.c.l., frt alld. E	lb.	1.85	—
Piperazine citrate, 36% dms., 1,000 lbs. or more, frt. alld	lb.	1.33	—
Piperazine dihydrochloride, 51%, dms., 1,000 lbs or more, frt alld	lb.	1.29	—
Piperazine hexahydrate, 44%, dms., 1,000 lbs. or more, frt. alld	lb.	.90	—
dms., 200-900 lbs., frt. alld	lb.	.93	—
Piperazine phosphate, 42%, dms., 1,000 lbs or more, frt. alld	lb.	1.11	—
Piperidine, dist., 98% min., 5 dms. or more, l.c.l., t.l., f.o.b. works	lb.	2.65	—
1-4 dms., same basis	lb.	2.70	—
dms., c.l., t.l., frt. equald	lb.	2.55	—
Piperonyl butoxide, dms., dlvd. E.	lb.	4.50	5.05

PITCHES

Pitch quotations are listed individually For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Platinum metal, works	oz.	81.00	85.00
Pleurisy root, bls.	lb.	.45	.50
Podophyllum resin, NF, dms.	lb.	12.50	15.50
Poke root, bls.	lb.	.19	.22
Polymyxin, bots., bulk., 50 billion units or more	1,000,000 units.	.52	—
bulk, bots., 25-50 billion units.	1,000,000 units.	.54	—
bulk, bots., 1-25 billion units.	1,000,000 units.	.56	—
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works	lb.	.42	—
dms., 10,000-20,000-lb. lots, works.	lb.	.44	—
dms., smaller lots, works	lb.	.47	.49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works	lb.	.42	—
dms., 10,000-20,000-lb. lots, works	lb.	.44	—
dms., smaller lots, works	lb.	.47	.49
Pontianak copal gum, chips, bgs.	lb.	.23½	.26
Nubs, bgs.	lb.	.38	.44
Poppy seed, Argentine, bgs.	lb.	No stocks.	
Dutch, bgs.	lb.	.14	—
Danish, bgs.	lb.	.14	—
Polish, bgs.	lb.	.13	—
Turkish, bgs.	lb.	.11	—
Potash, caustic, liq., 45% basis, dms., c.l., works	100 lbs	4.25	—
dms., l.c.l., same basis	100 lbs.	5.25	—
tanks, same basis	100 lbs	3.70	—
reg., flake, 88-92% dms. c.l. same basis	100 lbs.	9.55	—
dms., l.c.l., same basis.	100 lbs.	11.05	—
solid, 88-92%, dms., c.l., works	100 lbs.	9.10	—
dms., l.c.l., works	100 lbs.	10.60	—
Potassium acetate, NF, 200-lb. dm., f.o.b. works, E	lb.	.31	—
Potassium bicarbonate, USP, gran. dms	lb.	.22	—
powd., dms.	lb.	.24	—
Potassium bichromate, gran., bgs., c.l., t.l., works	lb.	.18	—
bgs., l.c.l., works	lb.	.18½	19¼
Potassium bichromate in dms. ¾c. higher.			
Potassium bitartrate, NF, gran., powd., 100-lb. bgs., c.l., frt. equald	lb.	.37	—
100-lb. bgs., 5,000 lbs., 1 shipt., same basis	lb.	.38	—
100-lb. bgs. smaller lots, same basis	lb.	.40	—
Potassium borohydride, powd., dms., works	lb.	16.00	22.00
Pelletized potassium borohydride $1.25 per lb. higher in 1,000-lb lots			
Potassium bromate, 200-lb. dms., c.l., frt. alld	lb.	.49	—
Potassium bromide, USP gran., bbls., kgs	lb.	.39	.40
Potassium carbonate, dom., NF, gran., bbls., dms	lb.	.22	.24
Dom. tech., powd., bbls., dms	lb	.21	.22
Dom., calcinated, bgs., c.l. works.	100 lbs.	8.50	—
bgs., l.c.l., same basis	100 lbs.	9.55	—
Dom., hydrated, 83-85%, bgs., c.l., works	100 lbs.	7.10	—
bgs., l.c.l., works	100 lbs.	8.15	—
Potassium chlorate, cryst, dms., c.l., works	lb.	.12¼	—
dms., l.c.l., works	lb.	.13½	.14½
Powd., dms., c.l., works	lb.	.12¾	—
dms., l.c.l., works	lb.	.14	.15
	works lb.	.12¼	—
Potassium chlorate, NF, cryst., dms., 2,000 lbs or more, works	lb.	.16¾	—
NF, gran., 25-lb metal dms	lb.	.36	—
NF powd., dms., 2,000 lbs. or more, works	lb.	.17¼	—
Potassium chloride, indust., 99.9% KCL, bulk, c.l., works	ton.	29.00	—
bgs., c.l., works	ton	00	—
99.3% KCL, bulk, c.l., works.	ton.	28.00	—
bgs., c.l., works	lb.	33.00	—
USP, cryst., dms	lb.	.17	—
USP, gran., dms	lb	.21	.23
USP, powd., dms.	lb.	.24	.26
Potassium chloride agricultural (see Potassium muriate).			
Potassium chromate, tech., dms., works	lb.	.50	.51
Potassium citrate, NF, gran., 250-lb. dms., f.o.b. works E	lb.	.43	—
powd., 250-lb dms., same basis.	lb.	.46	—
Potassium cyanide, dms., 20,000-lb. lots or more, works	lb.	.42½	—
dms., 2,000-19,999-lb. lots, works.	lb.	.43	—
dms., smaller lots, works	lb.	.44	.44½
Potassium dichromate (see Potassium bichromate).			
Potassium ferricyanide, dms., ton lots, works	lb.	.50	—
dms., smaller lots, works	lb.	.65	—
Potassium ferrocyanide, dms., ton lots	lb.	.24½	—
dms., smaller lots	lb.	.29	—
Potassium fluoborate, fib. dms., c.l., works	lb.	.30	—
fib dms., l.c.l., works	lb.	.31	—
Potassium fluoride, dms., works	lb.	.36	.37
Potassium gluconate, 100-lb dm., f.o.b. works E	lb.	1.67	—
Potassium guaiacol sulfonate, NF, dms	lb	2.10	2.30
Potassium hydroxide, tech. (see Potash caustic).			
Potassium hydroxide, USP, pellets, 100-lb dms. 1 to 100-dm. lots	lb	.33½	.38
Potassium hypophosphite, NF fib. dms., 1,000-lb. lots	lb.	1.38	—
Potassium iodide, USP cryst., gran., 200-lb. dm., f.o.b. works	lb.	1.55	—
Potassium manure salt, min. 20% K_2O, bulk, c.l., works, unit-ton.		.37	.1765
Potassium metabisulfite, gran. dms.,	lb.	.16	—
Powd., dms	lb.	.27	—
Potassium muriate, standard, bulk, c.l., works	unit-ton.	.37½	.38¼
bagged 60% minimum K_2O, same basis	ton.	26.60	27.80
Gran., bulk, c.l., works	unit-ton.	.38½	.40¼
bagged, 60% minimum K_2O, same basis	ton.	28.10	30.10
Inside prices apply to material contracted for prior to July 1, 1960.			
Outside prices apply to material contracted for after that date but also for delivery during the current month.			
Potassium nitrate, NF, cryst., bbls., 20-ton lots	100 lbs.	17.00	—
bbls., smaller lots	100 lbs.	18.00	19.00
gran., bgs., 20-ton lots	100 lbs.	9.50	—
bgs. smaller lots	100 lbs.	11.00	12.00
powd., bgs., 20-ton lots	100 lbs.	10.50	—
bgs. smaller lots	100 lbs.	12.00	13.00
Potassium oxalate, neutral, tech., fine gran., powd., 300-lb. dm., f.o.b. works E	lb.	.33	—

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41 Advance Road, Toronto 18, Ontario

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Potassium pentaborate, gran., dms., c.l., works ton.219.50 - —
dms., ton lots, ex whse..100 lbs.17.48 - —
dms., smaller lots, ex whse..100 lbs.18.73 - —

Powdered potassium pentaborate $10 per ton higher.

Potassium perchlorate, dms., c.l., works lb. .18½- —
dms., l.c.l., works lb. .19 - .20

Potassium permanganate, coml., kgs., works lb. .23 - .23
USP, dms., works lb. .29 - .33

Potassium pyrophosphate, tetrabasic, dms., works lb. .1475- .1575

Potassium prussiate red (see Potassium ferrocyanide).

Potassium prussiate yellow (see Potassium ferro-cyanide).

Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be 1:2.1, dms., c.l., works, 100 lbs. 5.95 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 6.70 - —
tanks, works 100 lbs. 5.60 - —
Glass grade, bgs., c.l., works 100 lbs. 17.30 -18.00
bgs., l.c.l., works 100 lbs.17.80 - —
Soln., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 4.95 - —
dms., l.c.l., 5-dm. lots or more, works 100 lbs. 5.70 - —
tanks, works 100 lbs. 4.60 - —

Potassium silicofluoride, bgs., works. lb. .09½- .10

Potassium silicofluoride in drums, 0.4c. per lb higher.

Potassium stannate, dms., frt. alld. lb. .895 - —

Potassium sulfate, min 50% K_2O, agricultural, bulk, c.l., works unit-ton. .70½- .72½

Inside price applies to tonnage contracted for prior to July 1, 1960.

Outside price applies to tonnage contracted for after that date but also for delivery during the current month.

Potassium sulfate, NF VII, cryst., dms., lb. .31 - .33
NF VII, gran., 400-lb. dm. lb. .18 - —
NF VII, powd., 400-lb. dm. lb. .17 - —

Potassium sulfocyanate, NF, cryst., (see Potassium thiocyanate).

Potassium thiocyanate, NF, cryst., dms., works lb. .96 - .98
Tech., dms., works lb. .77 - .79

Potassium titanate, ctns., c.l., works. lb. .16¼- —
ctns., 5-ton lots, works lb. .16½- —
ctns., 1-ton lots or less, works lb. .16¾- —

Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk works, base price. ton.13.45 - —
bulk, works, July forward ton.14.00 - —

Potassium-sodium tartrate, NF gran. or powd., 250-lb. dms., c.l., works E lb. .42½- —
250-lb. dms., 5,000-lb. lots, same basis lb. .43 - —
250-lb. dms., same basis lb. .43½- —

Potassium-titanium fluoride, fib, dms., works lb. .39 .40

Potassium-zirconium flouride, fib. dms., c.l., works lb. .50 - —
fib. dms., l.c.l., works lb. .52½- .55

Pregnenolone, bots. gram. No prices.

Pregnenolone acetate, bots. gram. No prices.

Procaine hydrochloride, USP, antibiotic grade, dms., 2,000-lb. lots, frt. alld lb. 2.25 - —
USP, ampule grade, dms., 1,000-lb. lots, frt. alld lb. 2.40 - —
dms., 500 lbs. lb. 2.45 - —
dms., 100 lbs. lb. 2.50 - —

Progesterone, USP, bots. gram. No prices.

Pregnenolone acetate, bots. gram. No prices.

Propenyl guaethol, dms. lb.24.30 -27.00

b-Propriolactone, tech., dms., c.l., f.o.b. works lb. .47½- —
dms., l.c.l., l.t.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —

Propionic acid, syn., pure, dms., c.l., dlvd. lb. .23¼- —
dms., l.c.l., dlvd. lb. .24¾- —
tanks, dlvd. lb. .20¾- —

n-Propyl acetate, dms., c.l., dlvd. lb. .14¾- —
dms., l.c.l., dlvd. lb. .16¼- —
tanks, dlvd. lb. .12¼- —

n-Propyl alcohol, dms., c.l., dlvd. lb. .14 - .15
dms., l.c.l., dlvd lb. .15½- .16½
tanks, dlvd. lb. .11½- .12½

n-Propyl gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 4.40

n-Propyl-p-hyroxybenzoate, USP, dms lb. 2.30 2.40

Propyl thiouracil, bots., 50 kilo lots or more kilo.55.00 —
bots., smaller lots kilo.55.10 -55.30

n-Propylamine, dms., c.l., dlvd lb. 1.24 —
dms., l.c.l., same basis lb. 1.255 - —

n-Propylene dichloride, consumers', dms., c.l., dlvd. E lb. .0845- —
dms., t.c.l., same basis lb. .0995- —
tanks, same basis lb. .07 - —

Propylene dichloride prices 1c. West 1c. higher, same basis.

Propylene glycol, indust., dms., c.l., dlvd. E lb. .15 - —
dms., t.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12½- —
USP, dms., c.l., dlvd. E lb. .17 - —
dms., l.c.l., same basis lb. .18¾- —
tanks, same basis lb. .14½- —

Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 - —
dms., t.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —

Propylene oxide, dms., c.l., dlvd. E. lb. .17 - —
dms., t.c.l., dlvd. E lb. .18½- —
tanks, dlvd. E lb. .14½- —

Psyllium seed, black, bgs. lb. .42 - .45
Blonde, bgs. lb. .18 - .20
Husks, bgs. lb. .42 - .45

Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03¾- .04¼
bgs., smaller lots lb. .03⅞- —

Imp., Italian, silk-screen, coarse, bgs, ton lots lb. .06½- —
fine, bgs. ton lots lb. .04 - —
sun dried, coarse, bgs. ton.60.00 —
fine, bgs. ton.60.00 -70.00

Pumpkin seed, bgs. lb. .25 - .26

Pyrethrins, syn (see Allethrin).

Pyrethrum flowers, fine grd., 0.9% pyrethrins, bgs., ton, works lb. .50 - —

Powd., 1.3% pyrethrins, bgs., ton, works lb. .71 - —

Pyrethrum liquid, 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works, gal. 9.80 - 9.80

100/1 basis (10 grams pyrethrine per 100cc odorless base), dms., works..gal.45.90 -46.90

Pyrethrum oleoresin, dewaxed, 20%, dms., works lb.11.00 -11.20
purif., 30%, dms., works lb.11.00 -11.35

Pyridine, denat., dms. c.l., works and frt. equald gal. 2.77 - —
dms., l.c.l., same basis gal. 2.80 - —
Refd., 2°, non-ret., dms., c.l., same basis lb. .75½- —
dms., l.c.l., same basis lb. .76 - .76½
tanks, same basis lb. .71 - —

Potassium persulfate, dms., c.l., works lb. .17½- —
dms., l.c.l., works lb. .18 - .21

Pyridoxine hydrochloride, USP 500-gram bots., dms., f.o.b. works kilo.95.00 -100.00

Pyrites, Canadian, 48-50% S, mines, long-ton. 4.50 - 5.00

Pyrocatechol (see Catechol).

Pyrogallic acid, NF (see Pyrogallol).

Pyrogallic acid, tech., bbls., 100-lbs., f.o.b., works lb 3.50 - —

Pyrogallol, NF 100-lb dms. lb 3.50 - —

Pyroxylin, USP, bots. lb. 9.50 - —

Q

Quassia chips lb. .10 - —

Quicksilver (see Mercury metal)

Quince seed, bgs lb. 1.75 - 2.00

Quinidine sulfate, USP, 1,000-oz. dm oz. .78½- —

Quinine, NF, 1,000-oz. dm. oz. .3750- —

Quinine bisulfate, USP, 1,000-oz. dm. oz. .28 - —

Quinine hydrochloride, 1,000-oz. dm. oz. .3650- —

Quinine sulfate, USP, 1,000-oz. dm. oz. .3150- —

Quinoline, dms., c.l., frt. equald lb. .50¾- —
dms., l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

R salt paste, dms., c.l., t.l., frt. alld., 100% basis lb. .98 - —

Powd., dms., c.l., t.l., frt. alld, 100% basis lb. 1.08 - —

Rapeseed oil, dms. lb. .19 - .19½
tanks lb. .17½- —

Rare earth oxalate, NF, 45-50%, bgs, works lb. 1.15 - —

Rauwolfia serpentina root, powd., bbls., dms lb. 1.00 - 1.20

Red carmine, No. 40 (see Carmine).

Red oil (see Oleic acid).

RED PIGMENTS

Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).

Red toner, Lake C, alizanine, bbls., works lb 1.30 - —

Reserpine, cryst., bots gram 1.25 - —

Resorcinol, tech. grade, bgs., c.l., works, frt equald lb. 77½- —
bgs., l.c.l., same basis lb. .78½- —
Resorcinol in dms. 1c. per lb more.

Resorcinol monoacetate, NF, dms. lb. 2.50 - —

USP, powd., dms., works lb. 2.95 - —

Rhatany root, bgs lb. .14 - .16

Rhodamine red toner, molybdated, PMA, kgs., works lb. 8.00 - —
Fungstated, PTMA, works, kgs lb. 6.60 —

Rhodinol, 5-lb cans lb.42.00 -51.00
Synthetic lb.14.00 16.00

Rhubarb root, India, whole, bgs lb .25 —
powd., bgs. lb .35 - —

Riboflavin, USP, fib, dms., kilo or more, dlvd kilo.36.00 - —

Riboflavin, 5-phosphate-sodium fib dms, kilo or more, dlvd. kilo.104.70 - —

Rice bran oil, clarified, dms., t.c.l. lb. .15½- —
tanks, dlvd, E lb. .14 - —

Ricinoleic acid (see Castor oil acids split).

Rochelle salt (see Potassium-sodium tartrate)

Roofing pitch (see Coaltar pitch roofing).

Rose oil, nat., Bulgarian, bots lb.1,152.00- —
Turkish, bots., otto lb.600.00 -700.00
absolute lb.145.00 - —

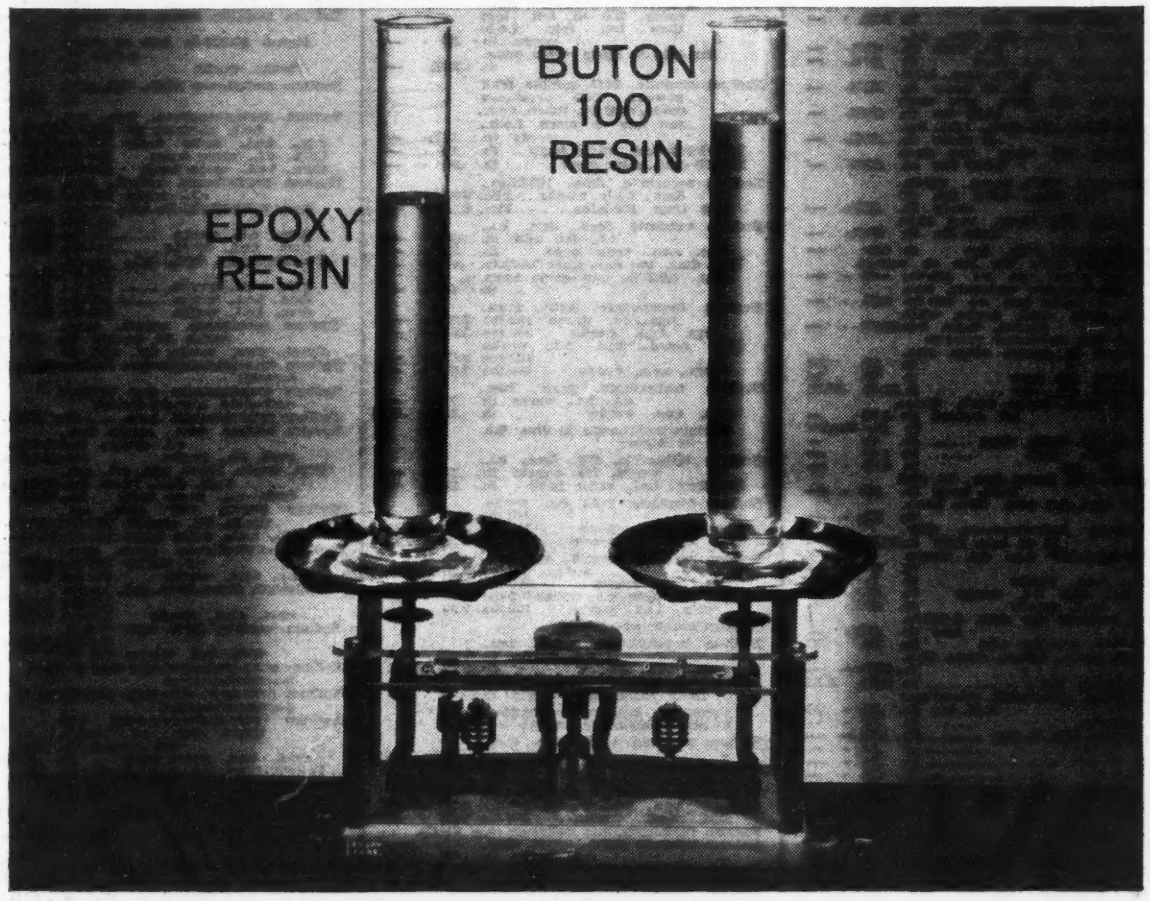
Rosemary oil, Spanish, NF, cns., dms. lb. 1.10 - 1.20
Spanish, tech., cns., dms lb. .80 - .95

Rosin gum and wood (see Naval Stores in Protective Coatings market).

Rotenone, fib, dms., works unit-lb. .10½- —
Resin, 25-45%, fib, dms., works, unit-lb. .10½- —

Rottenstone, bgs., 5-ton lots, ex-whse lb. .03¾- —
bgs., ton lots, same basis lb. .04¼- —

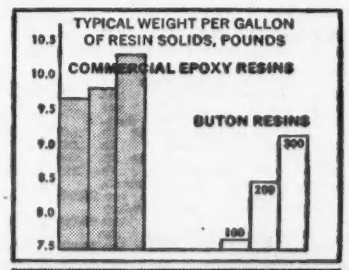
What's News in Enjay Resins...



BUTON® Resins save money through higher bulk

The high bulking value of Buton resins can offer a distinct economic advantage to the coatings formulator, who buys by the pound . . . sells by the gallon. Compared to several other quality resins, the high bulk of Buton resins can save between 10 and 20 per cent in resin costs. You will find a typical example in the graph to the right, which compares Buton resins with three commercial epoxy resins.

Buton resins have a low initial selling price, and are compatible with low cost solvents in nearly all cases. Furthermore, Buton-based formulations result in high-quality metal primers, lacquers, air dry and baking finishes. For more information, contact Enjay at 15 West 51st Street, New York 19, New York.



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RESINS

EXCITING NEW PRODUCTS THROUGH PETRO-CHEMISTRY

ENJAY CHEMICAL COMPANY

A DIVISION OF HUMBLE OIL & REFINING COMPANY

Rubber Solvent—Solvent Naphtha

Rubber solvent, petroleum, 115°F-245°F b.r., tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 - —
Rue oil, bots lb. 2.75 - 3.00
Rutin, NF fib dms., 10 kilo lots kilo.11.00 - —
fib dms., 5 kilo lots kilo.11.50 - —
fib dms., 1 kilo kilo.13.00 - —
Ryania, 100% powd., bgs., c.l., works lb. .22 - —
bgs., l.c.l., same basis lb. .24 - —

S

S acid, bbls., works lb. 3.25 - —
Sabadilla seed, activated, ground with lime, bbls lb. .42 - .44
Saccharin, calcium, fib dms., 1,000-lb lots, works lb. 2.50 - —
Saccharin, USP, gran., soluble, dms., 1,000-lb. lots lb. 1.50 - —
dms., smaller lots lb. 1.60 - —
USP, powd., soluble, dms., 1,000-lb. lots lb. 1.53 - —
dms., smaller lots lb. 1.65 - —
USP, powd., insoluble, dms., 1,000-lb. lots lb. 1.53 - —
dms., smaller lots lb. 1.63 - —
Safflower oil, dms., New York lb. .19¼- .19¾
tanks, Atl. coast lb. .17¼- —
Saffron, Mancha Superior, tins lb. 19.50 - —
Safrol, dms lb. .65 - —
Sage, Dalmatian, bgs lb. .40 - —
Greek, cns lb. .15 - —
Italian, cns lb. .18 - —
Sage oil, clary, bots lb 12.00 -15.00
Dalmatian, cns lb 2.85 3.25
Spanish, cns lb 1.25 1.75
Sal soda (see Soda sal).
Salicylaldehyde, dms., c.l., t.l., f.o.b. plant, frt. equald lb 1.23 - —
dms., l.c.l., same basis lb 1.25 - —
Salicylamide, 100-lb dms lb. 1.05 - —
Salicylic acid tech., fib. dms., c.l., t.l., divd lb. .40½- —
fib dms., l.c.l. divd lb. .44¾- —
USP, cryst., 200-lb. fib. dms., 1,000 lbs. or more lb. .51¼- —
200-lb fib dms., less than 1,000 lbs lb. .54¼- —
Cryst., 100-lb. fib. dms., 1,000 lbs. or more lb. .53¾- —
100-lb. fib. dms., less than 1,000 lbs lb. .56¾- —
Salicylic acid, USP, powd., 100-lb. fib. dms., 1,000 lbs. or more lb. .58¾- —
100-lb. fib. dms., less than 1,000 lbs lb. .61¾- —
Salol, NF, gran., bbls., kgs lb 1.20 —
Powdered salol 25c per lb higher.
Salt, rock, paper bgs., c.l 100 lbs 1.09 - —
Salt, table vacuum, common, fine, paper bgs., c.l 100 lbs 1.34 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton.28.00 - —
Saltpeter (see Potassium nitrate)
Sandalwood E. Indian, chips, bgs., lb. .55 .66
powd, fib dms lb .75 .76
Sandalwood oil, cns lb.26.00 -30.00
Sarcosine, tech., tanks, f.o.b., works, frt. equald lb 1.03 —
lb No stocks.
Sassafras oil, artif., dms lb. .45 - —
Nat., dom., dms lb 1.40 - —
Savory oil, cns lb 4.75 - —
Schaeffer's salt, paste, dms., frt. alld 100% basis lb. .85 - —
Powd, bgs, frt alld, 100% basis. lb. .95 - —
Scopolamine hydrobromide, USP, 10 oz. lots, bots oz.13.50 - —
Sebacic acid, CP, bgs., c.l., works, lb. .69½- —
bgs., l.c.l., works lb. .71½- —
Purified, bgs., c.l., works lb. .65½- —
bgs., l.c.l., works lb. .67½- —
Seidlitz mixture, fib dms., 5,000-lb. lots lb. .30½- —
fib dms., smaller lots lb. .31 - .32
Selenium, powd., 99⅙%, dms., divd. lb. 6.50 - —
Senega root, bls lb. 3.00 - 3.25
Senna leaves, Alexandria, whole and half, bls lb. .20 - .22
siftings lb. .16 - —
Tinnevelly, No. 1, bls. lb. .22 - —
No. 2, bls lb. .18 - —
No. 3, bls lb. .14 - —
pods, bls. lb. .28 - —
powd., bbls., bxs lb. .17 - —
Serpentaria root, bls lb. 6.50 - —
Sesame oil, USP, dms., l.c.l lb. .37 - .38
Sesame seed, Colombian, bgs lb. .15½- —
Lebanese, hulled, bgs lb. .19 - —
Nicaraguan, hulled, bgs lb. .21 - —
nat., bgs. lb. .15 - —
Salvadorian, Nat. bgs lb. .16 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .47 - —
dms., l.c.l. works lb .22 .20½
bbls., 1,500-lb. lots lb. .46 - —
kgs., 1,500-lb. lots lb. .47 - —
Bonedry shellacs prices for less than 1,500-lb lots 1c. per lb. higher for all packages.
Shellac, bleached, refd., bgs., 1,500-lb. lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb. lots lb. .58 - —
Shellac, orange, lemon No. 1, bgs., 10-bg. lots lb. .37 - .39
lemon No. 2, bgs., 10-bg. lots. lb. .34 .37
superfine, bgs. 10-bg. lots lb .32 .34
Shellac in 1 to 10-bg. lots 1c per lb more.
Shingle stain oil, tar distillate, dms., c.l., works gal. .37 - —
dms., l.c.l., works gal. .48 - —
tanks, works gal. .25 - —
Sienna, pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾- .17¾
Raw, paper bgs., c.l., works lb. .06¾- .16¾
paper bgs., l.c.l., works lb. .07 - .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton.25.00 —
bgs. l.c.l. works, ex whse. ton.45.00 -55.00
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l. works ton.20.00 - —
bgs., l.c.l., works ton.25.00 - —
99½% 140 mesh bgs., c.l., works ton.15.00 - —
bgs., l.c.l. works ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .20 - —
tanks, works lb .15 - —
Silver bullion, ingots, cs Prov oz. .91⅛- —
Silver cyanide, bots, 1,000-oz. lots, oz. .94¾- —
bots, 500-oz. lots oz. .95¼- —
bots, 100-oz lots oz. .96¼- —
Silver nitrate, CP, cryst., bots., 1,000 to 4,000 oz., f.o.b. works oz. .67¼- —
bots, 250-500 oz., same basis. oz. .67¾- —
USP granular silver nitrate 4c. per oz. higher.

Silver proteinate, mild, USP, 16-oz. bots. oz. 1.46 - —
Snakeroot oil, Canada, cns lb.40.00 -43.00
Soapbark, crushed, bls. lb. .35 - —
Powd., bls. lb. .40 - —
Whole, bls. lb. .25 - —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
paper bgs., l.c.l., stock pts., 100 lbs. 3.00 - 4.77
bulk, c.l., works 100 lbs. 1.60 - —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
paper bgs., l.c.l., stock pts. 100 lbs. 3.95 - 4.72
bulk, c.l., works 100 lbs. 1.55 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 5.20 - —
liq., 50% sellers' tanks, works, dry basis 100 lbs. 2.90 - —
50%, rayon type, sellers' tanks, works, dry basis 100 lbs. 2.90 - 3.00
Soda, caustic, liq, 73%, sellers' tanks, works, dry basis, 100 lbs. 3.00 - —
liq., 73%, rayon type, sellers' tanks, works, dry basis lb. 3.00 - 3.10
solid, 76%, dms., c.l., works, 100 lbs. 4.80 - —
Soda, sal, conc., bgs., c.l., works, 100 lbs. 2.50 - —
bgs, smaller lots, works 100 lbs. 2.80 - —
Sodium acetate, annyd., bgs., c.l., divd. E lb. .14½- —
bgs., l.c.l., same basis lb. .16½- —
NF, 60%, gran., dms., c.l., works, lb. .15½- —
dms., l.c.l., works lb. .17½- —
Sodium alginate, NF, white powd., dom., 300 lbs. or more lb. 1.02 - —
Sodium p-aminosalicylate, dms., 100-lb. lots or more, frt. adjusted lb. 1.90 - —
Sodium antimoniate, bgs., c.l., divd. E lb. .27½- —
bgs., l.c.l., divd. E lb. .29 - —
Sodium arsenate, 60% arsenic pentoxide, 200 lb. dm. less than ton lots, f.o.b. works lb. .24 - —
ton lots or more, same basis. lb. .23½- —
Sodium arsenite, 94% soluble pink powder, 75% arsenious oxide, dealers, 100-lb. dms., ton lots or more, f.o.b., works lb. .18½- —
1,600-1,900 dms., same basis lb. .19 - —
100-500 dms., same basis lb. .20 - —
Sodium ascorbate, dms., 100-kilos, dms., f.o.b. works kilo. 6.35 - —
less than 100-kilos kilo. 6.60 - —
Sodium benzoate tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l. same basis lb. .39 - —
USP, dms., ton lots, same basis lb. .43 - —
dms., 1,000-lb lots, same basis. lb. .45 - —
Sodium bicarbonate, USP, gran., bgs., c.l. works 100 lbs 2.95 - —
bgs., l.c.l. works 100 lbs 3.85 - —
USP, powd., bgs., c.l., works, 100 lbs. 2.55 - —
bgs., l.c.l., works 100 lbs. 3.45 - —
Sodium bichromate, gran., ngs., c.l., t.l., works lb. .13 - —
bgs., l.c.l., works lb. .13½- .14¼
Sodium bichromate in dms. ½c. per lb higher
Sodium bifluoride, fib. dms., c.l., works, frt. equald lb. .19½- —
fib. dms., l.c.l., same basis lb. .2025- —
Sodium bisulfate, bulk, c.l., works, 100 lbs 2.00 —
dms c.l., frt. equald 100 lbs 3.00 3.60
dms, l.c.l., frt equald 100 lbs 3.50 4.10
Sodium bisulfite annyd., bgs., c.l., works 100 lbs 5.00 - —
bgs., l.c.l., works 100 lbs 5.45 - —
Soln., 35° bbls, c.l., works 100 lbs 1.70 - —
bbls, l.c.l., works 100 lbs 2.20 - —
Sodium borate (see Borax)
Sodium borohydride powd., dms., c.l., works lb.19.90 —
dms., l.c.l., works lb.33.00 -40.00
stabilized water soln., 12% $NaBH_4$, 100% basis, dms., works lb.15.00 - —
Pelletized sodium borohydride $1 per lb higher in 1,000-lb lots.
Sodium bromide, USP, gran, dms., works lb. .40 - —
Sodium carbonate, cryst, monohydrated (see Soda, sal)
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs 3.10 - —
bgs., l.c.l., works 100 lbs 3.50 - —
Sodium carboxymethyl cellulose (see CMC).
Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 —
dms, l.c.l., works lb .09½- .10½
Sodium chlorate in 100-lb. dms., only, ¼c per lb higher.
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran, bgs. lb. .05 - —
Sodium chlorite, tech, dms., c.l., works lb. .58 - —
dms, 20-dm lots or more, works lb. .66 - —
dms, smaller lots, works lb. .70 - .73
Sodium chloroacetate, tech., dms., c.l., works lb. .27 - —
dms, l.c.l., works lb. .28 - —
Sodium chromate, anhyd, fib, dms., c.l., t.l., works lb. .14¾ —
fib dms, l.c.l., works lb. .15¼ - .16½
Tetrahydrate, bgs., c.l., t.l., works, lb. .1015- —
bgs, l.c.l. lb. .1065- .1190
Sodium citrate, anhyd., 200-lb. dm., f.o.b. works E lb. .62 - —
NF VIII, gran, bgs., c.l., same basis lb. .26 - —
USP XIV, gran, bgs., c.l., same basis lb .29 —
Sodium citrate USP powd prices ½c higher.
Sodium cyanate, dms, 1,000-lb. lots, works lb. .85 —
dms, smaller lots, works lb. .90 1.10
Sodium cyanide, briquettes or gran., 97 percent min., dms., works, 20,000-lb lots lb. .176 - —
dms., same basis, 5,000 to 19,999-lb lots lb. .188 - —
dms, same basis, 1,000 to 4,900-lb lots lb. .198 - —
Sodium cyclamate, 100-lb dm., f.o.b. works lb. 1.95 - —
Sodium diacetate, anhyd., 39-41% acetic acid, dms., c.l., works lb. .18 —
250-lb dms, c.l., works lb. ⅛¾- —
Tech, 33-35% acetic acid, dms., l.c.l., works lb. .15 - —
250-lb dms, l.c.l., works lb. 15¾- —
Sodium dimethyl dithiocarbamate, 40% soln, dms, c.l., t.l, frt. alld., 100% basis lb. .42 - —
dms, l.c.l., t.l., same basis lb. .47 .52
tanks, same basis lb .38 —
Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs, smaller lots lb. .14¼ - —

Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1300- —
fib. dms., l.c.l., works, frt. equald lb. .1485- —
Sodium formate, bgs., c.l., works, 100 lbs. 7.05 - —
bgs., l.c.l., ex whse 100 lbs. 8.65 - —
Sodium gentisate, 100-lb. fib. dms, lb. 5.50 - —
Sodium gluconate, refd., 250-lb. dm., f.o.b. works E lb. .84 - —
Tech., bgs., c.l., t.l., same basis lb. .54 - —
Sodium hydride, 50% soln. in oil, dms., works lb. 1.25 - 2.50
25% soln. in oil, dms., 50 lbs. or less, f.o.b. shipping point, lb. 2.20 - —
dms., 50-99 lbs., same basis lb. 1.77 - —
dms., 100-999 lbs., same basis lb. 1.20 - —
dms., 1,000 lbs or more, same basis lb. .95 - —
Sodium hydrosulfide (see Sodium sulfhydrate).
Sodium hydrosulfite, dms, c.l., frt. alld lb. 23½- —
dms., l.c.l., frt. alld. lb. .25¼- —
Sodium hydroxide, NF, pellets, 100-lb dms., 1 to 100-dm. lots, lb. .23½- .25
Sodium hydroxide, tech. (see Soda, caustic).
Sodium hypophosphite, NF, dms, 1,000-lb. lots lb. .99 - —
Sodium hyposulfite (see Sodium thiosulfate).
Sodium iodide, USP, 300-lb. dms., f.o.b. works lb. 2.13 - —
Sodium lauryl sulfate, dms., c.l., divd lb. .20½- —
dms., l.t.l., divd. lb. .21½- —
tanks, divd. lb. .19½- —
Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 - 6.50
t.c.l., bgs., works 100 lbs. 4.40 7.00
Sodium metabisulfite (see Sodium bisulfite).
Sodium metaborate octahydrate, gran., bgs., c.l. works ton.210.00 - —
bgs., ton lots, ex whse 100 lbs. 8.30 - —
bgs., smaller lots, ex whse 100 lbs. 9.61 -11.61
Tetrahydrate, bgs., c.l., works, ton.210.00 - —
bgs., ton lots, ex whse 100 lbs.14.83 - —
bgs., smaller lots, ex whse 100 lbs.16.08 -18.08
Sodium, metallic, bricks, c.l., works, lb. .21 - —
Fused, 18,000-lb. lots or more, works lb. .19½- —
tanks, works lb. .17 - —
Sodium metalinate, bbls., frt, alld, lb. .83 - —
Sodium metaphosphate, bgs., c.l., f.o.b. shipping pt 100 lbs.11.10 - —
bgs., l.c.l., same basis 100 lbs.11.85 - —
dms., c.l., same basis 100 lbs.11.70 - —
dms., l.c.l., same basis 100 lbs.12.45 - —
Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
bgs., 6,000-19,900 lb. lots, works, 100 lbs. 6.03 - —
dms., c.l., works 100 lbs. 6.20 - —
dms., l.c.l., works 100 lbs. 6.55 - —
Pentahydrate, bgs., c.l., works, 100 lbs. 4.45 - —
bgs., l.c.l., works 100 lbs. 4.80 - 6.75
dms., l.c.l., works 100 lbs. 4.95 - —
dms., l.c.l., works 100 lbs. 5.30 - 7.25
Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 - .99
Cryst., dms., works, frt. alld lb. .74 .76
Sodium monoglutamate (see Monosodium glutamate)
Sodium monohydrate (see Sodium carbonate monohydrated).
Sodium naphthionate, bbls. lb. .77 - —
Sodium nitrate, dom., crude, bgs., c.l., works ton.48.00 - —
bulk, c.l., works ton.44.00 - —
Imp., crude, 100-lb. bgs., c.l., Atl., Gulf, Pac., whse ton.48.00 - —
bulk, c.l., same basis ton.44.00 - —
Sodium nitrite, USP, bbls., c.l., works, frt. equald 100 lbs. 9.40 - —
bbls., l.c.l., same basis 100 lbs.11.40 - —
Sodium orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
dms., l.c.l., works 100 lbs. 7.05 - 7.65
Hydrated, flake, bbls., c.l., works, 100 lbs. 5.65 - —
bbls., l.c.l., works 100 lbs. 7.60 - 7.90
Sodium oxalate, 88%, bgs., works, 100 lbs.12.35 - —
99% bgs., works 100 lbs.15.40 - —
Sodium para-aminobenzoate (see Sodium p-aminobenzoate)
Sodium para aminosalicylate (see Sodium p-aminosalicylate)
Sodium pentachlorophenate, briquets, dms., c.l., works, frt. equald lb. .26 - —
dms., l.c.l., same basis lb. .27½- .34
Pellets, dms., c.l., same basis lb. .26 - —
dms., c.l., same basis lb. .27½- .34
Powd., dms., c.l., same basis lb. .25 - —
dms, l.c.l. same basis lb. .26½- .33
Sodium pentaharbital, USP, dms., 100 lbs. or more lb. 6.00 - —
Sodium perborate NF, tech., bgs., c.l., works lb. .18½- —
bgs, l.c.l. works lb. .19 - .21
Sodium peroxide, dms., c.l., t.l., divd E of Miss lb. .21½- —
dms., l.c.l. same basis lb. .22 - .22½
Sodium phenobarbital USP, 100-lb. dms lb. 3.75 - —
Sodium phenosulfonate, USP, IX, gran., dms lb. .52 - .53
NF powd. dms lb. .55 - .56
Sodium phosphate, dibasic, anhyd., bgs., c.l. frt equald 100 lbs. 8.10 - —
bgs., l.c.l., same basis 100 lbs. 8.50 - 9.55
Dibasic, cryst., bgs., c.l., t.l., frt. equald 100 lbs. 4.75 - —
bgs., l.c.l., frt. equald 100 lbs. 5.15 - 5.90
Duohydrate, bgs., c.l., frt. equald 100 lbs. 7.75 - —
bgs., l.c.l., same basis 100 lbs. 8.25 - —
Monobasic, anhyd bgs., c.l., frt. equald 100 lbs. 9.15 - —
bgs., l.c.l., same basis 100 lbs. 9.55 -10.15
Tribasic, anhyd, bgs., c.l., frt. equald 100 lbs. 9.15 - —
bgs., l.c.l. frt. equald 100 lbs. 9.60 -10.20
Sodium phosphate in dms. 60c. to 80c. higher than bgs
Sodium phosphate, USP, dried, powd., bgs., dms., works lb. .19 - .20½
Sodium picramate, tech., paste, dms., f.o.b. works, frt. equald lb. .90 - —
Sodium propionate, any quantity, dms, divd E of Rockies. lb. .37 - —
Prices W of Rockies 3c per lb. more.
Sodium prussiate, yellow (see Sodium ferrocyanide)
Sodium pyrophosphate, acid, bgs., c.l., works, frt equald. 100 lbs.11.25 - —
bgs., l.c.l., same basis 100 lbs.12.00 -12.50
Sodium pyrophosphate, terric, dms., c.l., t.l., works lb. .36 - —
dms, l.c.l. works lb. .37 - .39
Tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.55 - —
bgs., l.c.l., same basis 100 lbs. 8.30 - —
Sodium salicylate USP dms., 1,000-lbs or more lb. 78½- —
dms., less than 1,000 lbs., dms. lb. .81½- —

Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., divd, zone 1 100 lbs. 4.10 - 4.35
divd, zone 2 100 lbs. 4.35 - 4.60
divd, zone 3 100 lbs. 4.75 - 4.90
divd, zone 4 100 lbs. 5.35 5.60
Sales zones are (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss., south of 31°; Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 96° Ga.; Iowa (except Davenport) Minn., Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98° N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.
Sodium sesquisilicate, annyd., bgs., c.l., t.l., works 100 lbs. 5.70 - —
dms. c.l., t.l., works 100 lbs. 6.20 - —
hydrated, bgs., c.l., works 100 lbs. 5.00 - —
bgs., 6,000-19,900 lb. lots, works 100 lbs. 5.35 - —
dms., c.l., works 100 lbs. 5.50 - —
dms. 6,000-19,900 lb. lots, works, 100 lbs. 5.85 - —
Sodium silicate, liq., 40° Be., 1:3.2, turbid, dms., c.l., works, 100 lbs. 1.65 - —
dms., l.c.l., works 100 lbs. 1.90 2.40
tanks, works 100 lbs. 1.20 —
47° Be. 1:2.9, turbid, dms., c.l., works 100 lbs. 2.25 —
dms., l.c.l., works 100 lbs. 2.60 - 3.45
tanks, works 100 lbs 1.90 —
52° Be. 1:2.4, turbid, dms., c.l., works 100 lbs. 2.65 —
dms., l.c.l., works 100 lbs. 3.00 3.50
tanks, works 100 lbs. 2.30 - —
Solid, 1.3.2, bgs., works ton.67.50 - —
Sodium silicofluoride, bgs., c.l., works lb. .065 - —
bgs., l.c.l., works lb. .725- —
Sodium silicofluoride in dms., 0.4c. per lb. higher
Sodium stannate, dms., works, frt. alld. E lb. .745 - —
Sodium sulfa drugs (see Sulfa name).
Sodium sulfanilate, bbls., works lb. .23 - —
Sodium sulfate, NF VII, dried, powd., dms lb. .22½- —
Tech., anhyd, bgs., c.l., divd E. ton.56.00 - —
Tech., detergent, rayon grade, bgs., c.l., works ton.38.00 - —
bulk, c.l., works ton.34.00 - —
USP, cryst., fib dms. lb .17½- .18
Sodium sulfhydrate, flake, 70-72%, dms., c.l., works, frt. equald lb. .07¼- —
dms., l.c.l., same basis lb. 08¼- —
Liq. 40-44% tanks, works, 100% basis ton.130.00 - —
Sodium sulfide, flake, dms., c.l., works, E., frt. equald lb. .06 - —
dms., l.c.l., same basis lb. .07 - —
Fused, bbls., c.l., works, E., frt. equald lb. .05½- —
bbls., l.c.l., same basis lb. .06½- —
Sodium sulfite, anhyd., tech., bgs., c.l., works 100 lbs. 3.50 - —
bgs., t.l., same basis 100 lbs 4.00 - —
Powd., bgs., c.l., works 100 lbs. 7.55 - —
bgs, l.c.l. same basis 100 lbs. 7.95 —
Sodium sulfocyanide, CP (see Sodium thiocyanate).
Sodium tetraborate (see Borax).
Sodium tetrasulfide, liq., 40%, dms., c.l., works, frt. equald lb. .04½- —
dms., l.c.l. same basis lb. .05½- —
Sodium thiocyanate, purified, cryst., 250-lb. dms lb. .90 - —
Tech., anhyd., dms., 1 ton lots or more, works lb. .367 - —
dms., less than ton lots, works lb. .387 - —
Sodium thiosulfate, NF, cryst., bbls. lb. .13½- —
Tech., anhyd, 100-lb. bgs., c.l., t.l., frt. equald 100 lbs. 7.75 - —
100-lb. bgs. l.c.l., t.l., frt. equald 100 lbs. 8.15 - —
photograde, 64-lb. bgs., c.l., t.l., frt. equald lb. .0775- —
64-lb. bgs. l.c.l. t.l., frt. equald lb. .0815- —
Tech., pentahydrate, photo grade, 100-lb. bgs., c.l., t.l., frt. equald 100 lbs. 4.95 - —
100-lb. bgs., l.c.l., t.l., frt. equald 100 lbs. 5.20 - —
Sodium titanate, ctns., c.l., works, lb. .14¼- —
ctns., 5-ton lots, works lb. .14½- —
ctns., 1-ton lots or less, works lb. .14¾- —
Sodium trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E. lb. .35 - —
50-lb. dms., c.l., frt. alld. E lb. .35½- —
10-lb. cns., c.l., frt. alld E lb. .42 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.
Sodium tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 7.90 - —
bgs., l.c.l., same basis 100 lbs. 8.65 - —
bulk, hopper cars, same basis. 100 lbs. 7.35 - —
Sodium trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.95 - —
bgs., l.c.l., works 100 lbs. 9.70 -13.15
dms., c.l., works 100 lbs. 9.45 - —
dms., l.c.l., works 100 lbs.10.20 -10.60
Sodium tungstate, tech., bgs., divd. E lb. 1.32 - —
Sodium-ammonium phosphate, purif., cryst., dms., works lb. .52 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium formaldehyde sulfoxylate, dms., t.l., divd lb. .22½- —
dms., l.t.l., same basis lb. .23 - —
Sodium-zirconyl sulfate, fib. dms., 1,000-lb. lots or more works lb. .28 - —
fib. dms., smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt equald gal. .30 - .35½
Solvent naphtha, petroleum, straight aromatic, 310°-360°F b.r., 14°-16°C. m.a.p., tankcars, New Jersey and New York gal. .29 - —
Houston, Texas gal. .29 - —
355°-420°F. b.r., 17°-18°C. m.a.p., tankcars, New Jersey and New York, gal. .30 - —
Houston, Texas gal. .30 - —
Partial aromatic, 211°-265°F b.r., 31°C m.a.p., tankcars, New Jersey and New York gal. .235 - —
286°-340°F. b.r., 22°C. m.a.p., tankcars, New Jersey and New York gal. .275 - —
319°-380°F. b.r., 27° C. m.a.p., tankcars, New Jersey and New York gal. .27 - —
322°-395°F b.r., 28°C m.a.p., tankcars, New Jersey and New York gal. .28 - —

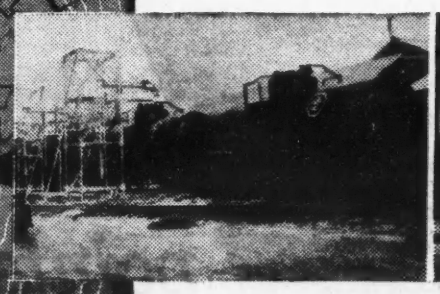
Sorbitan monostearate, fib. dms., 50,000-lb. lots, works lb. .29½- —
10,000 to 50,000-lb. lots, works lb. .35½- —
fib. dms., smaller lots, works lb. .29½- .30½
Sorbitan tristearate, fib. dms., 20,000-lb. lots, works lb. .34 - —
fib. dms., 10,000 to 20,000-lb. lots, works lb. .36 - —
fib. dms., smaller lots, works lb. .39 - .41
Sorbitol, NF, reg., 70% aqueous, dms., c.l., works lb. .18 - —
dms., l.c.l., works lb. .19 - —
tanks, works lb. .16¼- —
cryst., resin grade, pellets, dms., c.l., works lb. .22 - —
dms., 1 to 5-ton lots, works, lb. .25 - .26
powd., dms., c.l., works lb. .28½- —
dms., 10,000 to 20,000 lb. lots, works lb. .40½- —
Sorbitol, soln., comml., aqueous, dms., c.l., works lb. .26 - —
dms., l.c.l., works lb. .27 - —
tanks, works lb. .23¼- —
Soya protein, chemically isolated, old process, bgs., c.l., works, lb. .23 - —
bgs., l.c.l., works lb. .23½- .23½
Chemically isolated, new process, bgs., c.l., works lb. .30 - —
bgs., l.c.l., works lb. .30½- .30½
Soybean meal, 44%, bulk, unrestricted, Decatur ton.68.00 - —
Soybean oil, crude, tanks, Decatur, lb. .12½- —
Foots, soapstock acid 95%, tanks, New York lb. .07½ Nom.
Soybean oil, alkali, refd., dms. lb. .1680- .1705
tanks lb. .1480- —
Clarified, dms. lb. .1630- .1655
tanks lb. .1430- —
Salad, refd., dms. lb. .16½- .17½
tanks lb. .14½- —
Soybean oil acids, dbl. dist., dms., lb. .16¾- .19¼
tanks lb. .14¼- —
S. D., dms lb. .15½- .18
tanks lb. .13 - —
Sparteine sulfate, cns., 100 oz. or more oz. .80 - —
Spearmint leaves, dom., bls lb. .75 - —
Spearmint oil, NF, dms lb. 3.25 - —
Sperm oil, bleached winter, 45°, dms lb. .1673- .1775
tanks lb. .1473- —
Nat., winter 45°, dms lb. .1575- .1675
tanks lb. .1375- —
Spermaceti wax, blocks, cs. lb. .32 - .33
Cakes, cs. lb. .33 - .34
Spruce oil, cns., dms. lb. 2.10 3.55
Squill, white, bls. lb. .16 - .18
Powd., bbls., bxs. lb. .17 - .20
St. John's bread, edible, bls. lb. .17 - —
Stannic chloride, anhyd., dms., works lb. .877 - .953
Stannic oxide, dms., divd. lb. 1.205 - 1.195
Stannous chloride, anhyd., dms. lb. 1.417 - 1.317
Stannous sulfate, works lb. 1.158 - 1.174
Star root (see Helonias root)
Stargrass root (see Aletris root.)
Stavesacre seed, bgs lb. .60 .61
Stearic acid, dbl., pressed, bgs. lb. .18 - .21½
Single-pressed, bgs. lb. .17½- .20
Triple-pressed, bgs. lb. .19¾- .22¼
Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York gal. .18 - —
tanks, Houston gal. .1475- —
tanks, group 3 gal. .12875- —
Stramonium leaves, bgs. lb. .16½- .18
Streptomycin sulfate, bulk gram, .93 - —
Strontium bromide, NF, cryst., gran., 150-lb. dm., frt. equald lb. 1.00 - —
Strontium carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
dms., 1-ton lots, works lb. .37 - —
Tech., dms., works lb. .19 - —
Strontium chromate fib dms., divd. lb. .48 - —
Strontium iodide, jars, 25-lb lots lb. 3.57 - —
Strontium nitrate, bgs., c.l., works, 100 lbs.11.00 - —
bgs., l.c.l., works 100 lbs.12.00 - —
Strontium salicylate, NF, dms lb. 1.88 - —
Strontium sulfate, air floated, 90%, 325 mesh, bgs., works, ton.56.70 -60.15
Strophanthin G (see Quabain, USP).
Strophanthin K, bots. oz.25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs lb. 2.50 - 3.00
Styrax gum, USP, cs. lb. 4.50 5.50
Styrene monomer, polymer grade, 99.6%, dms., c.l., divd. lb. .17 - —
dms., l.c.l., same basis lb. .19 - —
tanks, frt. equald. lb. .13 - —
Tech., 99.2%, dms., c.l., divd. lb. .15 - —
dms., l.c.l., same basis lb. .17 - —
tanks, frt. equald lb. .1099- —
Above prices are escalated for each calendar quarter on the basis of cost of benzene in the range of 31c. to 34c. a gallon and petroleum refining labor.
Styrolyl acetate, bots. lb. 1.03 1.10
Succinic acid, purif., cryst., dms., t.l., frt. alld lb. .62 - —
dms., l.t.l., same basis lb. .63 - .75
Succinic anhydride, dms., c.l., t.l., divd lb. .51 - —
dms., l.c.l., same basis lb. .52 - —
Sucrose, refd., white, bgs., refy E. lb. .0940- —
Sucrose acetate, isobutyrate, 90%, dms., t.l., divd lb. .33½- —
dms., l.t.l., same basis lb. .35 - —
tanks, same basis lb. .31 - —
100%, t.l., dms., divd. lb. .35½- —
t.l., dms., same basis lb. .37 - —
Sucrose octa-acetate, denaturing grade, 100-200-lb. lots, bgs. l.c.l., works lb. 1.00 - —
Sugar (see Sucrose)
Sugar cane wax, dom., refd., slabs, 80-lb. ctns., works lb. .60 - .63
80-lb ctns. spot lb. .65 - .75
Sulfabenzamide, dms. kilo 8.80 9.90
Sulfabenzamide-sodium, dms. kilo. 9.00 -10.10
Sulfacetamide, USP, fib dms kilo. 6.61 6.83
Sulfacetamide-sodium, USP, fib. dms kilo. 8.15 9.25
Sulfadiazine, USP, microcrystals, dms kilo.23.35 -24.45
USP, powd., dms. kilo.22.60 -23.70
Sulfadiazine-sodium, USP, dms kilo.24.80 -25.90
Sulfaguanidine, NF X, dms kilo. 5.50 6.60
Sulfamerazine, USP, microcrystals, dms kilo.23.50 - —
Sulfamerazine-sodium, USP, powd., dms kilo.24.80 25.90
Sulfamethazine, USP XV, microcrystals, dms kilo.19.65 -20.75
USP XV, powd., dms. kilo.18.75 -19.85
Sulfamic acid, cryst., dms., c.l., t.l., works 100 lbs.16.00 —
dms., t.c.l., t.t.l., works 100 lbs.17.50 18.50
Gran., dms., c.l., t.l., works, 100 lbs.14.75 —
dms., t.c.l., t.t.l., works 100 lbs.16.25 -17.25
Sulfanilamide, NF reg., 1,000 lb., fib. dms., frt. equald lb. 1.75 - —
NF, reg., smaller lots, fib. dms., frt. equald lb. 1.80 - —
Sulfanilamide quinoxaline, veterinary, dms kilo.16.28 - —
Sulfanilic acid, tech., dms., c.l., frt. alld lb. .21 - —
dms., t.c.l., frt. alld lb. .23 - —
Sulfapyridine, USP XV, powd., bgs., tins kilo.16.45 -16.85
Sulfapyridine-sodium, monohydrate, dms. kilo.16.95 -17.65
Sulfathiazole, NF X, microcrystals, dms. kilo. 6.25 - 6.90
NF X, powd., dms. kilo. 5.50 - 6.15
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 - —
Sulfur, comml., flour, bgs., mines, 100 lbs. 2.25 - —
bbls., mines 100 lbs. 3.30 - —
lump, bgs., mines 100 lbs. 2.25 - —
bbls., mines 100 lbs. 2.80 - —
Sulfur, crude, dom., bright, bulk, f.o.b. cars, mines long-ton.23.90 - —
export, f.o.b. vessels, Gulf ports, long-ton.25.00 - —
US and Canada, f.o.b. vessels Gulf ports long-ton.25.00 - —
Domestic dark sulfur prices are $1 per long-ton lower.
Sulfur, crude, imp., Mexican, bulk, filtered, f.o.b., vessel, Coatzacoalcos long-ton.24.00 - —
Mexican dark sulfur price is $1 per long-ton lower.
Sulfur, refd., flowers, NF, bgs., mines 100 lbs. 5.65 - —
bbls., mines 100 lbs. 7.00 - —
flour, light, bgs., mines 100 lbs. 5.25 - —
bbls., mines 100 lbs. 6.25 - —
lump, bgs., mines 100 lbs. 4.95 - —
rolls, bgs., mines 100 lbs. 5.50 - —
bbls., mines 100 lbs. 6.25 - —
salt block, bgs., mines 100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs. 4.70 - —
Sulfur, rubbermakers, comml., reg., bgs., mines 100 lbs. 2.45 - —
bbls., mines 100 lbs. 3.70 - —
Sulfur, rubbermakers, 99-100%, passing through mesh, bgs., mines 100 lbs. 2.53 - —
bbls., mines 100 lbs. 3.80 - —
Refd., bgs., mines 100 lbs. 4.80 - —
bbls., mines 100 lbs. 6.05 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.73 - —
bbls., mines 100 lbs. 4.80 - —
Sulfur dichloride, ret. dms., c.l., works, frt. equald lb. .05½- —
ret. dms., l.c.l., same basis lb. .06½- —
tanks, same basis lb. .04½- —
Sulfur dioxide, liq., comml., cyls., works, frt. equald lb. .10 - .13
multi-unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., dlvd. lb. .33 - —
Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald lb. .05½- —
dms., l.c.l., same basis lb. .06½- —
tanks, same basis lb. .04½- —
Sulfuric acid, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
cbys., l.c.l., works 100 lbs. 2.20 - —
tanks, works ton.18.00 - —
66°Be, cbys., c.l., works 100 lbs. 2.25 - —
cbys., l.c.l., works 100 lbs. 2.55 - 2.35
tanks, works ton.22.35 - —
98%, tanks, works, East ton.23.50 - —
99%, tanks, works, East ton.23.70 - —
100%, tanks, works, East ton.23.95 - —
Sulfuric acid, California works, tanks ton.26.45 - —
CP, NF, consumers' cbys., c.l., frt. equald lb. .12¼- —
Sulfuric acid, CP, NF, consumers' cbys., l.c.l., same basis lb. .14¼- .14½
8-pt. bots., extra, cs., c.l., works, frt. alld lb. .16¼- —
8-pt. bots., extra, cs., l.c.l., same basis lb. .17¼- .18½
Sulfuric acid, fuming (oleum), 20%, tanks, works ton.25.00 - —
40%, tanks, works ton.29.00 - —
65%, tanks works ton.39.50 - —
Superphosphate, run-of-pile under 32% a.p.a., pulv., bulk, c.l., Baltimore unit-ton. .90 .93
bulk, c.l., Carteret, N. J. unit-ton. .90 .93
Superphosphate, triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla., unit-ton. 1.00 - —
bulk f.o.b. vessel at Fla unit-ton. 1.05 - —
Sweet birch oil, USP, northern, cns lb. 4.00 9.50
USP, southern, cns lb. 2.00 3.00

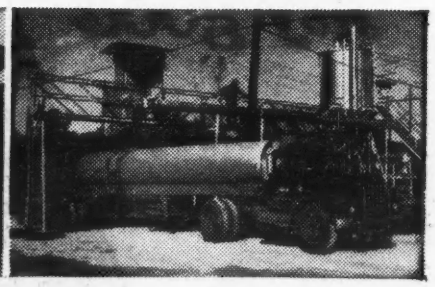
T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
dms., l.c.l., same basis lb. 1.25 - —
2,4,5-T, isopropyl ester, dms., c.l., works, frt. equald lb. 1.24 - —
dms., l.c.l., works lb. 1.29 - —
Talc, dom., fibrous, grd., bgs., c.l., works, New York ton.28.00 - —
bgs., l.c.l., works ton.31.00 -36.00

molten sulphur

SHORT HAULS—PROMPT DELIVERIES





Beaumont, Texas is the shipping point for practically all the TGS tonnage of molten sulphur sent to the eastern half of the United States. *BUT* instead of waiting for deliveries measured in days TGS customers can rely upon these four regional terminals and get their supplies in much faster time.

Cincinnati, Ohio — **Tampa, Florida**
Norfolk, Virginia — **Carteret, New Jersey**

At each of these terminals, we maintain inventories of thousands of tons of molten sulphur, ready for prompt deliveries by tank car and tank truck. It would be an unusual demand that would necessitate time-consuming 'Beaumont to customer' delivery.

This is service with a capital S. These terminals are part of a steadily expanding TGS program of shortening Sulphur supply lines.

TEXAS GULF SULPHUR COMPANY
75 East 45th Street, New York 17, N. Y.
811 Rusk Avenue, Houston 2, Texas

Sulphur Producing Units: Newgulf, Texas • Moss Bluff, Texas • Fannett, Texas • Spindletop, Texas • Worland, Wyoming • Okotoks, Alberta, Canada

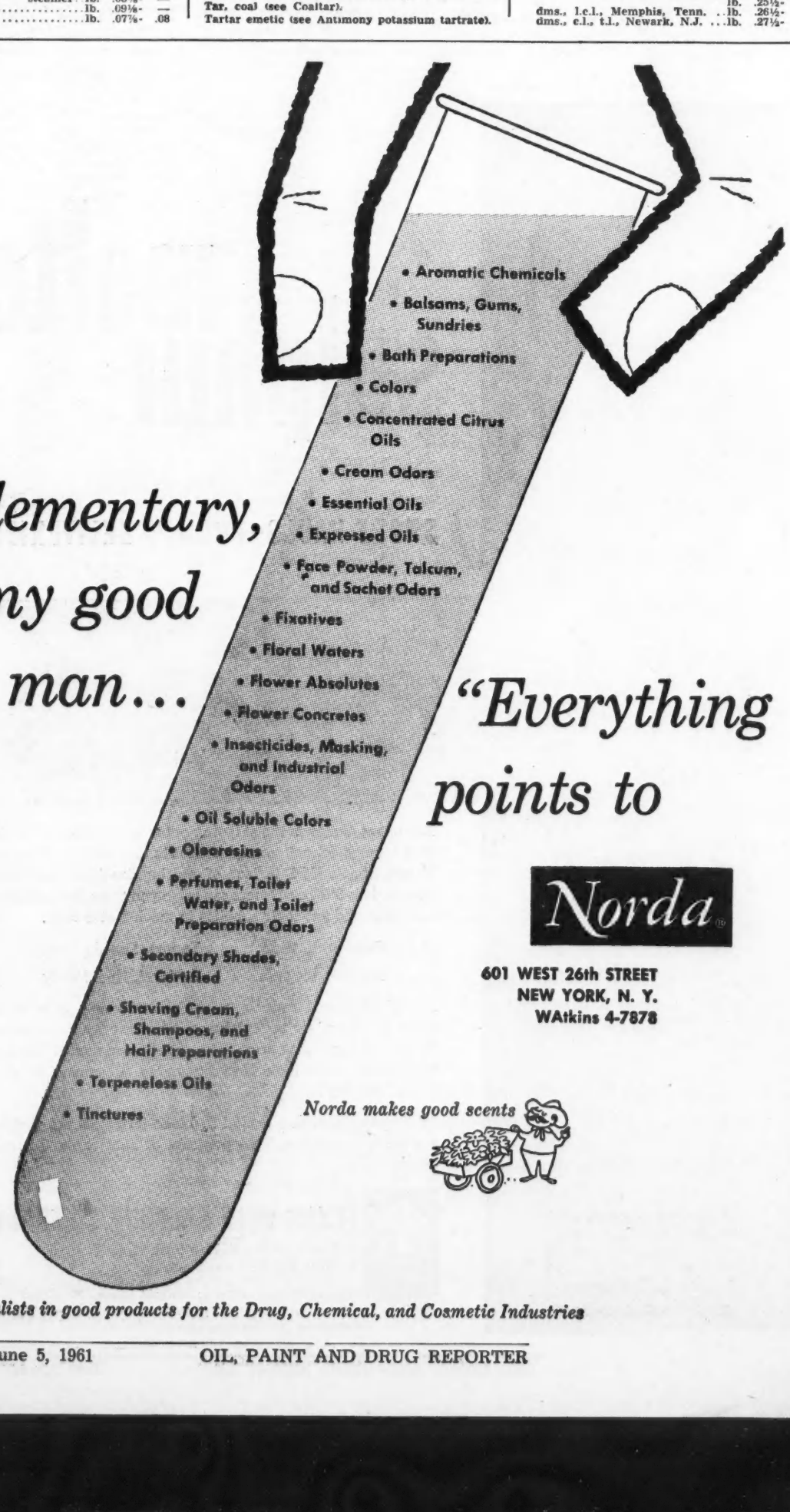
Talc—Tonka Beans

Talc, dom., fibrous, 99.5%, 325 mesh, bgs., c.l., works, New York	ton	31.00	—
bgs., l.c.l., works	ton	34.00	—
Talc, dom., fibrous, 99.95%, 400 mesh, micronized, bgs., c.l works	ton	38.00	—
625 mesh, micronized, bgs., c.l., works	ton	80.00	—
Talc, dom., ord., Calif., grd., bgs., c.l., works	ton	34.00	39.50
Vermont, off-color, grd., bgs., c.l., works	ton	19.40	—
bgs., l.c.l., works	ton	37.00	—
Imp., Canadian, grd., bgs., c.l., mines	ton	20.00	35.00
tanks, works	lb.	.02⅞	.03⅛
Tall oil, crude, tanks, works	lb.	.03¼	—
Acid, refined dms., c.l., works	lb.	.08¾	.10
tanks, works	lb.	.07½	.08¾
Dist., depending on grade, dms., c.l., works	lb.	.07½	.08¾
tanks, works	lb.	.06	.08
Tall oil fatty acids, less 2% rosin acid, dms., c.l., works	lb.	.08	.11¼
tanks, works	lb.	.06	.09¼
2-6% rosin acid, dms., c.l., works	lb.	.07	.08
tanks, works	lb.	.05	.06
Tallow, edible, tanks, dlvd	lb.	.09¾	Nom.
Inedible, fancy, bleachable, tanks	lb.	.07⅝	—
fancy, guaranteed, bulk, f.o.b. steamer	lb.	.08⅛	—
dms., f.a.s.	lb.	.09⅛	—
tanks, dlvd.	lb.	.07⅞	.08
Tallow, No. 1, dlvd	lb.	.07⅛	.07¼
Prime, tanks, dlvd	lb.	.07⅜	—
Special tanks, dlvd	lb.	.07¼	—
Sulfonated, 25%, bbls., l.c.l.	lb.	.08½	.08¾
50%, bbls., l.c.l.	lb.	.10½	.11
Tallow acids, dist., dms.	lb.	.14½	.17
tanks	lb.	.12	—
Hydrogenated, dms.	lb.	.16¾	.19¼
Tallow oil, acidless, dms., c.l.	lb.	.14	—
dms., l.c.l.	lb.	.16	—
tanks	lb.	.12½	—
Tangerine oil, Florida, dms	lb.	4.75	—
Tankage, animal, feeding, 9-11% ammonia, New York bulk, unit-ton.		4.75	5.00
Tannic acid, NF, fluffy, bbls., 1,000-lb. lots	lb	2.05	—
bbls., smaller lots	lb	2.06	2.07
powd., bbls., 1,000-lb. lots	lb.	1.95	—
bbls., smaller lots	lb	1.96	1.99
Tech., dms.	lb.	1.05	—
Tansy oil, dms	lb	6.60	8.00
Tar acid oil, 25-18%, dms., c.l., dms., l.c.l., same basis	gal.	.55½	—
tanks, same basis	gal.	43½	—
25-28%, dms., c.l., frt. equald basis	gal.	.53½	—
dms., l.c.l., same basis	gal.	62	—
tanks, same basis	gal.	50	—
50-53%, dms. c.l., same basis	gal.	75	—
dms., l.c.l., same basis	gal.	77	—
tanks, same basis	gal.	65	—
Tar, coal (see Coaltar).			
Tartar emetic (see Antimony potassium tartrate).			
Tartaric acid, NF, 100-lb. bgs., c.l., frt. equald	lb.	.41	—
bgs., 10,000 lbs., 1 shipt., same basis	lb.	.43	—
bgs., smaller lots, same basis	lb.	.47	—
Terpine hydrate, NF, cryst., powd., 100-lb. fib. dms	lb.	.70	—
Terpineol, extra, dms	lb.	.50	.60
Prime, dms.	lb.	.40	.50
Terpinyl acetate, extra, cns., dms.	lb.	.64	.75
Prime, dms.	lb.	.53	.56
Terpinyl propionate, dms	lb.	1.65	1.70
Testosterone, USP, bots.	gram.	No prices.	
Testosterone propionate, USP bots.	gram.	No prices.	
Tetrachloroethane, dms., works	lb.	.14½	—
Tetrasodium pyrophosphate (see Sodium pyrophosphate).			
Tetrachloroethylene, tech. (see Perchloroethylene).			
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works	lb.	.20½	—
dms., l.c.l., works	lb.	.22	.23½
Tetraethyl orthosilicate, dms., c.l., dlvd. E	lb.	.60	—
dms., l.c.l. dlvd. E	lb.	.61¼	—
Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald	lb.	.75	—
Tetraethylenepentamine, dms., c.l., dlvd. E	lb.	.53½	—
dms., l.c.l., dlvd. E	lb.	.55	—
tanks, dlvd. E	lb.	.51	—
Tetraethylthiuram disulfide, tech., dms., frt. alld	lb.	1.04	—
Tetrahydrofuran, dms., c.l., t.l., works	lb.	.36½	—
dms., l.c.l., or t.l.l., works	lb.	.37	—
tanks, works	lb.	.35	—
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn.	lb.	.25½	—
dms., l.c.l., Memphis, Tenn.	lb.	.26½	—
dms., c.l., t.l., Newark, N.J.	lb.	.27½	—
Tetrahydrofurfuryl alcohol, dms., l.c.l., Newark, N. J.	lb.	.28½	—
tanks, dlvd. E. of Denver	lb.	.25	—
tanks, dlvd. W. of Denver	lb.	.26	—
Tetrahydrophthalic anhydride, dms., c.l., t.l., frt. alld. E	lb.	.39	—
l.c.l., t.t.l., same basis	lb.	.41	—
Tetrapotassium phosphate (see potassium phosphate).			
Thallium metal, dlvd	lb.	7.50	10.00
Thallium sulfate, 99%, bots., dlvd.	lb	5.00	10.00
Theobromine, NF, fib dms., 100-lbs., f.o.b., works	lb.	4.10	4.15
Theobromine and sodium acetate, USP, fib. dms., 500-lbs. works	lb.	6.45	—
Theobromine, sodio-salicylate, NF, fib. dms., 500-lbs., works.	lb.	3.80	—
Theophylline, USP, anhyd., 100-lb. dms., frt. alld	lb.	3.65	—
Thiamine hydrochloride, USP, fib. dms., frt alld	kilo.	36.00	—
USP, ampule grade, fib., dms., frt. alld	kilo.	38.00	—
Thiamine mononitrate, USP, fib. dms., frt. alld	kilo.	36.00	—
Thiocarbanilide, dms., ton lots	lb.	.74	—
dms., less ton lots	lb.	.76	—
Thiodiphenylamine (see Phenothiazine).			
Thioflavin green toner, brilliant, molybdated, PMA, kgs., works	lb	5.20	—
Tungstated, PTMA, kgs., works	lb	6.20	—
Thioglycolic acid, refd., 55 gal dms., ton lots, 100% basis	lb.	1.15	—
Thiosalicylic acid, 80%, dms., 1,000-lb., lots, works	lb.	4.00	—
Thiourea, tech., bgs., t.l. frt alld.	lb.	.30	—
bgs., ton lots, same basis	lb.	.32	—
bgs., less than ton lots, same basis	lb.	.33	—
Thorium nitrate, purif., fib dms., 100-lb. lots or more, works	lb.	3.50	—
dl-Threonine, dms., 25 kilos, works,	kilo.	115.00	—
Thyme leaves, French, triple sifted extra, bgs	lb.	.27	—
Spanish, extra, bgs	lb.	.12	—
triple sifted, bgs.	lb.	.25	—
Spanish, bgs.	lb.	.09	—
Thyme oil, NF, red, cns., dms.	lb.	3.35	3.60
NF, white, cns	lb.	3.60	3.95
Tech., white, cns.	lb.	.80	1.10
Thymol, fib dms., 25-lbs., f.o.b. works	lb.	2.45	—
Thymol iodide, NF, dms., 100-lbs f.o.b. works	lb.	7.30	—
Timbo root (see Cube root)			
Tin chloride (see Stannous chloride, anhyd.).			
Tin crystals (see Stannous chloride, hydrous)			
Tin metal (Straits)	lb.	1.11¼	—
Tin oxide (see Stannic oxide).			
Tin sulfate (see Stannous sulfate).			
Tin tetrachloride, anhyd. (see Stannic chloride, anhyd.).			
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd	lb.	.25½	—
bgs., l.c.l., dlvd.	lb.	.26½	—
reg., bgs., c.l., dlvd.	lb.	.25½	—
bgs., l.c.l., dlvd.	lb.	.26½	—
metallurgical, nat., bgs., c.l., f.o.b. Jacksonville, Fla.	ton.	180.00	—
Titanium dioxide, metallurgical, nat., bgs., 5-ton lots, Niagara Falls, N. Y	ton.	205.00	—
bgs., ton lots, same basis.	ton.	215.00	—
Milled metallurgical titanium dioxide $7.50 per ton higher			
Titanium dioxide, rutile, nonchalking, bgs., c.l., dlvd. E	lb.	.27½	—
bgs. l.c.l., dlvd. E	lb.	.28½	—
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd	lb.	.09⅜	—
bgs., l.c.l., works	lb.	.09⅞	—
50% Ti O_2, high-tinting, dms., c.l.,	lb.	.14⅜	—
dms. l.c.l.	lb.	.14⅞	—
Titanium hydride, powd., dms., works	lb.	8.10	9.00
Titanium tetrachloride, tech., dms., c.l., works	lb.	.28	—
dms., l.c.l., works	lb.	.27½	.29
tanks, works	lb.	.20	—
Tobias acid, dms., c.l., t.l., 20,000 min., f.o.b. plant, frt. alld. E	lb.	.81	—
dms., l.c.l., l.t.l., 5,000 lbs- 19,999 lbs., same basis	lb.	.81½	—
dms., l.c.l., l.t.l., less than 5,000 lbs., same basis	lb.	.84	—
For west coast delivery add 2c. per lb.			
d-a-Tocopherols, NF, mixer, conc., pure basis, bots	kilo.	67.00	—
d-a-Tocopheryl acetate, NF, conc., pure basis, bots	kilo.	122.00	—
d-a-Tocopheryl acid succinate, cryst., bots	kilo.	109.00	—
dl-a-Tocopherol, bots.	kilo.	99.00	—
dl-a-Tocopheryl acetate, bots	kilo.	90.00	—
25% dry, powd., bots	kilo.	22.50	24.00
33% dry, powd., bots.	kilo.	30.00	31.50
o-Tolidine base dry, kgs., 100% basis	lb.	1.55	—
Paste, kgs., 100% basis	lb.	1.50	—

TOLUOL

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine hydrochloride paste, kgs., 100% basis	lb.	1.50	—
Tolu balsam, cns	lb.	4.00	—
Toluene, coaltar, indust., or nitration, tanks, dlvd. E. of Rockies	gal.	.25½	—
Toluene, petroleum, indust., tanks, f.o.b., frt. equald	gal.	.25	—
p-Toluenesulfonamide, powd., dms., t.l., works	lb.	.60	—
dms., t.t.l. same basis	lb.	.63	—
Toluenesulfonic acid, 55-gal. dms., t.l., frt. alld	lb	.16	—
1,000-lb. or more, same basis	lb.	.18	—
less than 1,000-lb., same basis	lb.	.23	—
tanks, same basis	lb.	.14	—
Toluenesulfonic acid in 10-gal. dms., 2c. per lb. more.			
p-Toluenesulfonic acid monohydrate, dms., c.l., or t.l	lb.	.90	—
dms. 125 lbs. to t.l.	lb.	1.00	—
m-Toluidine, dms., c.l., works, frt. alld	lb.	.83	—
dms., l.c.l., same basis	lb.	.84	—
tanks, same basis	lb.	.82	—
o-Toluidine, dms., c.l., works, frt. alld	lb.	.30	—
dms., l.c.l. same basis	lb	.31	—
tanks, same basis	lb.	.28	—
p-Toluidine, tech. flake, dms., frt. alld	lb.	.50	—
Cast, dms., frt. alld.	lb.	.45	—
p-Toluidine-m-sulfonic acid, dms., works	lb.	.92	1.04
Toluidine red toner, deep shades, kgs., works	lb.	1.70	—
Light shades, kgs, works	lb	1.70	—
2,4-Tolylenediamine, cryst., fib. dms., l.c.l., frt alld	lb	1.10	—
Tonka beans, Angostura, cns.	lb	1.50	—
Brazilian, Surinam, cs.	lb.	1.30	—



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"Everything points to

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601 WEST 26th STREET
NEW YORK, N. Y.
WAtkins 4-7878

Norda makes good scents

Specialists in good products for the Drug, Chemical, and Cosmetic Industries

Totaquine, 100-oz. lots, cns. ....oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .22 - —
dms., l.c.l., l.t.l., works ..... lb. .26 - —
Tragacanth gum, No. 1, ribbons, cs lb. 4.10 - 4.20
No. 2, cs. ..... lb. 3.75 - 3.80
No. 3, cs. ..... lb. 3.40 - 3.65
USP, powd., bbls. ..... lb. 1.05 - 1.15
Triacetin, dms., c.l., divd. E. of Rockies. lb. .38 - —
dms., l.c.l., same basis ..... lb. .39½- —
tanks, same basis ..... lb. .35½- —
Triallylamine, dms., c.l., divd. lb. .985 - —
dms., l.c.l., divd. ..... lb. .995 - —
tanks, divd. ..... lb. .96 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver. lb. .42½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .43½- —
tanks, frt. alld. E. of Denver lb. .40 - —
Tributyl phosphate, dms., c.l., works. lb. .52½- —
dms, l.c.l., same basis ..... lb. .53½- —
tanks, same basis ..... lb. .50 - —
Tributylamine dms., c.l., works lb. .67½- —
dms., l.c.l., same basis lb. .69 - —
tanks, same basis lb. .65 - —
Tributyrin dms. l.c.l. divd. lb. .69 - —
Trichloroacetic acid, tech., 300-lb. dms. c.l., f.o.b works lb. .52 - —
USP, 100-lb dms., frt. equald lb. 1.25 - —
Trichlorobenzene dms. c.l., frt. alld. E lb. .15 - —
dms., l.c.l., frt. alld. E. ..... lb. .16 - —
tanks, frt. alld. E. ..... lb. .13¼- —
Trichlorobenzene prices in the West 1¾c. higher
1,1,1-Trichloroethane, dms., c.l., divd. lb. .13¼- —
dms., l.c.l., divd ..... lb. .16 - —
tanks, divd ..... lb. .12¼- —
1,1,2-Trichloroethane, dms., c.l., works lb. .15½- —
dms., l.c.l., works ..... lb. .16¼- —
tanks, works ..... lb. .13½- —
Trichloroethylene dms., c.l., or t.l., divd lb. .12½- —
dms., l.c.l., divd. ..... lb. .14 - .14½
tanks, divd ..... lb. .11¼- —
Trichloroisocyanuric acid dms., c.l., t.l., frt. equald lb. .65 - —
dms. l.c.l. same basis lb. .75 - —
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., non-ret. dms., 1 dm., frt. equald. kilo. 3.10 - —
Tricresyl phosphate, coaltar, dms., c.l., divd lb. .35 - —
dms., l.c.l., divd. ..... lb. .36 - —
tanks divd lb. .32½- —
Petroleum, dms., c.l., divd... lb. .35 - —
dms., l.c.l. divd. ..... lb. .36 - —
tanks divd lb. .32½- —
Tridecyl alcohol, mixed isomers, dms., c.l., divd. E lb. .22½- —
dms., l.c.l., divd. E ..... lb. .24 - —
tanks, divd. E ..... lb. .20 - —
Triethanolamine dms. c.l., divd E. lb. .24½- —
dms., l.c.l., same basis ..... lb. .26 - —
tanks, same basis ..... lb. .22 - —
Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld lb. .25½- —
dms., l.t.l. frt. alld. ..... lb. .26½- —
tanks, frt alld. ..... lb. .24½- —
Triethylamine dms. c.l., divd E. lb. .50 - —
dms., l.c.l., same basis ..... lb. .51½- —
tanks, same basis ..... lb. .47½- —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld E. of Denver lb. .46¼- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .47¼- —
tanks frt alld. E. of Denver. lb. .43¾- —
Triethyl phosphate, dms., c.l., divd. lb. .40½- —
dms., l.c.l., divd. ..... lb. .42 - —
tanks, divd. ..... lb. .38 - —
Triethylene glycol, dms., c.l., divd. E lb. .21 - —
dms., l.c.l., divd. E ..... lb. .22½- —
tanks, divd. E ..... lb. .18½- —
Triethylenetetramine, dms., c.l., divd. E lb. .51½- —
dms., l.c.l., divd. E ..... lb. .53 - —
tanks, divd E ..... lb. .49 - —
Triisobutylene, tanks, divd. ..... lb. .06 - —
Tri-isopropanolamine, dms., c.l., divd. E lb. .23¼- —
dms., l.c.l., divd. E. ..... lb. .24¾- —
tanks, divd. E ..... lb. .20¾- —
Trimethylamine, anhyd., cyls., l.c.l., frt. equald, 100% basis lb. .30 - .305
tanks frt equald, 100% basis. lb. .30 - —
Trimethylamine, anhyd., 25-40% soln.., dms., c.l., frt. equald, 100% basis lb. .35 - —
dms. l.c.l. frt. equald, 100% basis lb. .35½- —
tanks, 100% basis, frt equald lb. .26 - —
Trimethylolpropane, dms., c.l., t.l., divd. E lb. .30½- —
dms., l.c.l., l.t.l., same basis lb. .31½- —
Trioxanes, pure, dms., c.l., t.l., works lb. .50 - —
dms. l.c.l. works lb. .51½- —
Tripentaerythritol bgs., c.l., t.l., divd. E lb. .34 - —
bgs., l.c.l., l.t.l., divd E lb. .35 - —
Triphenyl phosphate bbls., c.l., frt. equald lb. .41½- —
bbls. l.c.l. frt. equald lb. .43½- —
Triphenylguanidine bbls. works lb. .90 - —
Tripropylene dms., c.l., divd. E gal. .44 - —
dms., l.c.l., same basis gal. .54 - —
tanks, same basis gal. .28 - —
Tripropylene glycol, dms., c.l., t.l., frt. alld E lb. .20½- —
dms. l.c.l. t.l.l. frt. alld. E lb. .22 - —
tankcars and compartmented tankcars frt alld E lb. .17½- —
Tripropylene glycol, tankwagon and compartmented tankwagon, 1,000 gals., min. frt. alld. E lb. .18 - —
Tripropylene glycol prices 1c. per lb. higher in west.
Trisodium phosphate (see Sodium phosphate (tribasic).
dl-Trypophane, dms., 1 kilo, works. kilo. 154.00 - —
Tung oil, dms., New York ..... lb. .26 - .26½
tanks, imported ..... lb. .24½- .24¾
tanks, domestic, mills ..... lb. .25 Nom.
Tungsten metal powd., 2.0-2.5 microns, dms., works lb. 4.25 - —
Tungstic acid tech., dms., 1,000-lb. lots, works lb. 2.25 - —
dms. smaller lots, works lb. 2.45 - —
Turkey red, bbls. works lb. .62 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Turpentine oil, NF, cns., dms lb. .28 .50
Tuscan red bbls. frt equald lb. .26 .32
Tyrothricin, USP, 1 to 5 kilos gram. .50 - —

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., divd. E. of Rockies lb. .30½- .35
Ultramarine blue, jobbing types, dry, bbls., same basis lb. .18 - .22½
Regular types, dry bbls., same basis lb. .16 - .37½
Ultramarine blue prices 1c. higher W. of Rockies.
Umber pigment, burnt, American, bgs., c.l., works lb. .07½- .07¾
bgs., l.c.l., works ..... lb. .07¾- .08
turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N.Y.. lb. .08¼- —
Raw, American, bgs., works lb. .07¾- .08¼
Turkey-type, bgs., works lb. 06½- .08¾
Undecylenic acid 55-gal. dms., f.o.b. works lb. 1.23 - —
Unicorn root, false (see Helonias root).
Unicorn root, true (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., f.o.b. plant ton. 100.00 - —
Feed grade, c.l., t.l., f.o.b. plant. ton. 95.00 - —
45% N, agricultural, bgs., c.l. f.o.b. plant ton. 92.50 - —
Bulk, c.l., t.l., same basis ton. 86.50 - —
Urea-ammonia liquor A, B, C & F grades, N basis, tanks, frt. equald ton. 120.00 - —
37 grade, tanks, same basis ton. 145.00 - —
Urethane, USP, dms., t.l., f.o.b., works lb. .65 - —
dms., l.t.l., same basis ..... lb. .70 - —
Uva-ursi leaves, bls ..... lb. .12 - —

V

Valerian root, Belgian bgs. ... lb. .32 - —
Indian, bgs. lb. .25 - —
dl-Valine, dms., 1 kilo, works kilo. 37.00 - —
Vanadium pentoxide, tech., dms. works lb. 1.38 - —
Vandyke brown, bbls., works ... lb. .09½- .13
Vanilla beans, Bourbon, tins.... lb. 7.00 - 7.15
Mexican cuts, tins ..... lb. 7.10 - 7.40
whole, tins ..... lb. 7.40 - 7.80
Vanillin ex lignin, 100-lb. fib. dms., 2,000-lb. lots or more lb. 3.00 - —
less than 2,000 lbs ..... lb. 3.20 - 3.30
Venetian red, jobbing, bgs., works. lb. .0475- —
Venetian red, 20%, bgs., works lb. .0525- —
25%, bgs., works ..... lb. .0575- —
30%, bgs., works ..... lb .06 - —
35%, bgs., works ..... lb .0625- —
40%, bgs., works ..... lb .0675- —
Vetiver oil, Bourbon, cns ..... lb. 17.00 - 17.25
Haitian, cns. ..... lb. 12.00 - 14.00
Victoria blue toner, molybdated, PMA 250-lb. bbls., divd. E. of Rockies lb. 4.50 - 4.95
Tungstated, PTMA, 250-lb. bbls., divd. E. of Rockies lb 5.55 - —
Victoria blue toner, bbls., prices 1c. higher W of Rockies.
Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., divd lb. .1810- —
55-gal. dms., l.c.l., divd lb. .1960- —
tanks, divd. ..... lb. .1560- —
tanktrucks less than 4,000 gal., divd lb. .1610- —
Vinyl n-butyl ether, tech., dms., l.c.l., works lb. .50 - —
Vinyl chloride monomer, tanks, works, min. frt. equald E. lb. .0896- —
Vinyl ether, USP, anesthesia, bots., 50cc., hospitals bot 1.12 - —
bots., 75cc., hospitals bot 1.56 - —
Vinyl ethyl ether tech. dms., c.l., works lb. .30¼- —
dms., l.c.l., works ..... lb .31 - —
tanks, works ..... lb. .28¼- —
Vinyl propionate monomer, dms. c.l., divd lb .49 - —
dms., l.c.l., same basis lb .50 - —
tanks, same basis lb. .47 - —
Vinyl trichloride (see Trichloroethane)
2-Vinylpyridine, 10 dms to tanks, works lb 1.20 - —
1 to 9 dms., works ..... lb 1.35 - —
tanks, works ..... lb 1.15 - —
Vinyltoluene, dms., c.l., f.o.b., dest. frt. paid, Zone 1 lb. .16½- —
dms., l.c.l. same basis lb .18½- —
tanks, same basis ..... lb. .14 - —
Zone 2 prices are 1c. per lb. higher.
Zone 1 is East of Rockies. Zone 2 is West of Rockies.
Viosterol in nat. vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units .02½- —
Virginia type red, bbls., works lb. 1.40 - —
Vitamin A acetate, syn., cryst., beads, 500,000 A units per gram gram .07¼- —

Toluic Acids provide ideal intermediates for the manufacture of aromatic esters, amides, acid chlorides, nitrile and anhydride compounds. Cowles' facilities for large-scale production of m-Toluic, o-Toluic and p-Toluic acids make it possible to produce specially formulated esters and metallic salts of the Toluics where commercial quantities are indicated.

Call Cowles to discuss it, today.

Cowles CHEMICAL COMPANY
Cleveland 3, Ohio

Vitamin A Acetate—Zinc Oxide

Vitamin A acetate, dry, 500,000 units per gram, kilo lots kilo 65.00 - —
325,000 units per gram, same basis kilo 43.88 - —
250,000 units per gram, same basis kilo 33.75 —
Dry vitamin A acetate in less than kilo lots, $1.25 to $2.50 per kilo higher
Vitamin A, liq (a oil), 1,000,000 A units per gram 1,000,000 units 09½- —
Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units 09½- —
Vitamin B_1 (see Thiamine hydrochloride).
Vitamin B_2 (see Riboflavin and Yeast)
Vitamin B_{12}, cryst., USP (cyanocobalamin) 1-50 grams vials, tins gram 45.00 - —
Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on gelatin, 100 and 500-gram bots on 1-5 kilo, dms., gram .57 - —
Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on resin, 100 and 500-gram bots, 1-5 kilo dms gram .57 - —
Vitamin B_{12}, oral grade solids in containers of 1 and 10 gram of B_{12} activity gram 52.00 - —
0.1% trituration of cryst. B_{12} with dicalcium phosphate or mannitol, 1-10 kilo 52.00 - —
0.1% trituration of cyanocobalamin, USP, with dicalcium phosphate or mannitol gm 52.00 - —
USP solution of cyanocobalamin (5,000 micrograms per cc.), 5-gram bots gram 52.00 - —
Vitamin B_{12}, 0.1% cobalamin concentrate, NF adsorbed on resin 500-gram bots, 1-5 kilo, dms, frt. alld gram .57 - —
Vitamin B_{12}, 0.1% cobalamin concentrate in gelatin, 1-10 kilo, dms., frt. alld gram .57 - —
Vitamin C (see Ascorbic acid)
Vitamin D, (see Codliver and Fishliver oils, Calciferol and Viosterol)
Vitamin D dry, 850,000 units per gram, kilo lots kilo 42.50 —
850,000 units per gram less than kilo lots kilo 45.00 —
Vitamin E (see a-Tocopherol and Wheat germ oil).
Vitamin H (see Biotin)
Vitamin K, active (see Menadione).
Vitamin K_1, 25-gram lots gram 4.50 - —
Violet methyl toner (see Methyl violet toner)
VM&P naphtha (see Naphtha VM&P petroleum).

W

Wahoo root bark, bls lb 2.00 2.25
Warfarin 0.5% dms. 50-lb. lots, dlvd lb 1.95 —
dms. 25-49-lb lots, New York or Chicago lb 2.05 —
dms. 5-24-lb lots, New York or Chicago lb 2.15 —
Watchung-type reds, bbls lb 1.95 —

WAXES
Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal dms. gal 12.25 —
White lead (see Lead white)
White mineral oil (see Mineral oil, white).
White pine bark, rossed bls lb 21 .23
White precipitate, USP, powd., dms., 100 lbs. f.o.b. works lb 5.50 —
Whiting (see Calcium carbonate)
Wild cherry bark, thin, nat., bls lb .30 —
Wintergreen oil, USP, nat. northern, cns lb 6.35 - 17.50
USP, nat. southern, cns lb 3.75 7.00
Wintergreen oil, sat. (see Methyl salicylate)
Witch hazel bark, bls lb .30 .35
Witch hazel leaves, bls lb .75 .80
Wollastonite fine paint grade, bgs., c.l., works ton 41.00 —
bgs., l.c.l., ex whse ton 51.00 —
medium paint grade, bgs., c.l., works ton [illegible] - —
bgs., l.c.l., ex whse ton 39.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil)
Woolfat crude (see Degras)
Woolfat USP (see Lanolin).
Wormseed Levant, bgs lb 2.50 - —
Wormseed oil (see Chenopodium oil NF)
Wormwood oil, cns lb 4.75 - —

X

Xylene, coaltar, indust., tanks, works:
Bethlehem, Pa. gal .29 —
Birmingham dist. gal .29 —
Chicago dist. gal .28½- —
Cleveland dist. gal .29 —
Geneva, Utah gal .29 —
Johnstown, Pa gal .29 —
Lackawanna, N.Y. gal .29¼- —
Lone Star, Tex gal .27 —
Lorain, Ohio gal .29 - —
Middletown, Ohio gal .30 —
Minnequa, Col gal .29 —
Philadelphia dist. gal .29 - —
Pittsburgh dist. gal .29 - —
Sparrows Point, Md gal .29 - —
Terre Haute, Ind gal .29 - —
Youngstown, Ohio gal .29 - —
Petroleum, indust., tanks, f.o.b. works:
Bayonne, N. J gal .29 - —
Baytown, Tex. gal .27 —
Charleston, S. C. gal .29 —
Chicago, Ill gal .28½- —
Detroit, Mich., dlvd gal .27½- .29
Houston, Tex. gal .27 —
Philadelphia, Pa. gal .29 —
Providence, R. I. gal .30 —
Sewell's Point, Va. gal .28 - —
Wood River, Ill gal .28½- —
m-Xylene, 95%, dms., c.l., f.o.b., Richmond, Calif lb .21 - —
dms. l.c.l. f.o.b., Richmond, Calif lb .22 - —
tanks, frt. alld. lb .19 - —
o-Xylene, dms., c.l., works lb .08 - —
dms., l.c.l., works lb .09 - —
tanks, works lb .06 .06½
p-Xylene, dms., c.l., works lb .20 —
dms., l.c.l., works lb .21 —
tanks, frt alld lb .16 45- —
Xylenol cryst., 45°-47°C., m.p., dms., l.c.l., works, frt. equald lb .23 —
56°-58°C., m.p., dms., l.c.l., works, frt. equald lb .33 - —
60°-62°C., m.p., dms., l.c.l., same basis lb .40 - —
Xylenol fraction, 7°-9° C., dry above 227° C., dms., c.l., same basis gal 1.25 —
dms., l.c.l., same basis gal 1.30 - —
tanks, same basis gal 1.05 —
Xylenol fraction, 7°-9° C., dry at or below 227° C., dms., c.l., same basis, gal 1.35 - —
Xylenol fraction, 7°-9° C., dry at or below 227° C., dms., l.c.l., same basis gal 1.40 - —
2,4-Xylidine, tech., dms., frt alld lb 1.15 - —
2,5-Xylidine, tech., dms., frt. alld. lb 1.20 - —
Xylidines, mixed, o-m-p, dms., c.l., or t.l., works lb .39 - —
dms., l.c.l., same basis lb .40 - —
tanks, same basis lb .38 - —

XYLOL
Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns lb 2.15 3.05
Yeast, brewers, debittered, USP XV, Saccharomyces dlvd lb .27 - —
primary, USP XV, 150 mcg. B_1 per gram, 100-lb. dms lb .47 - —
USP XV, 270 mcg. B_1 per gram 100-lb dms lb .52 - —
Yeast, brewers, primary USP XV, 300 mcg. B_1 per gram, 100-lb dms lb .56 - —
Yeast, brewers, USP XV, 900 mcg. B_1 per gram, 100-lb. dms. lb .60 - —
Torula USP dlvd lb 18 —

YELLOW PIGMENTS
Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow

Yerba santa leaves, bls. lb .40 - .45
Ylang Ylang oil, Bourbon, bots. lb 7.00 - 22.00
extra, bots. lb 24.00 - 33.00
Yohimbine hydrochloride, bots., tins, oz 3.75 - 4.25

Z

Zein, 50-lb. bgs., c.l., t.l., f.o.b. works lb .37 - —
50-lb. bgs., smaller lots, f.o.b. works lb .41 - .44
Zinc acetate, NF, VIII, dms lb .53 - —
Tech., dms., l.t.l., works lb .2950- —
Zinc borate, bgs., 1,000 lbs or more, works lb .25 - —
bgs., less than 1,000 lbs., same basis lb .27 - —
Zinc chloride, NF, gran., dms lb .42 - —
NF, precip., powd., dms lb .26 - —
Tech., soln. 50%, dms., c.l., works 100 lbs. 5.80 - —
dms., l.c.l., works 100 lbs. 6.40 - —
tanks, works 100 lbs. 5.15 - —
fused dms. c.l. works 100 lbs. 10.70 - —
dms., l.c.l., works 100 lbs. 11.20 - —
Zinc Chloride, tech. gran., fib. dms., c.l., works 100 lbs. 11.45 - —
fib dms. l.c.l. works 100 lbs. 11.95 - —
Zinc chromate bbls., dlvd. lb .29 - —
Basic bbls. dlvd. lb .34 - —
Zinc cyanide dms., 1,000-lb. lots or more, works lb .55 - —
dms., smaller lots, works lb .57 - —
Zinc dust coml. bbls., c.l., works, lb .16 - —
Pigment, bbls., c.l., works lb .15½- —
bbls., l.c.l., works lb .17¼- —
Zinc fluoride, bbls., works lb .49 - .58
Zinc hydrosulfite, dms., c.l., frt. alld. lb .21½- —
dms., l.c.l., frt. alld. lb .23½- —
Zinc metal, prime western, slabs, E. St. Louis lb .11½- —
Prime western slabs, New York, lb .13 - —
Zinc naphthenate liq. 8% Zn., dms., frt. alld lb .27 - —
10% Zn., dms., frt. alld. lb .33 - —
Zinc nitrate, tech., flake, 100-lb. fib. dms., l.c.l. lb .16½- —
300-lb. fib. dms, l.c.l. lb .14½- —
300-lb. fib. dms., c.l. lb .14 - —
Zinc oxide pigment, American process, lead-free bgs., c.l., f.o.b. works lb .12½- —
bgs., l.c.l., 10 tons or more, same basis lb .13 - —
bgs., l.c.l., smaller lots, same basis lb .13½- —
Zinc oxide, leaded, 35%, bgs., c.l., mills, f.o.b. works lb .14 - —
bgs., l.c.l., 10 tons or more, same basis lb .14½- —
pigment, American process, leaded, 50%, bgs., l.c.l., 10 tons or more, same basis, lb .14½- —
Zinc oxide, pigment, French process, green seal, bgs., c.l., f.o.b. works lb .14½- —
bgs., l.c.l., 10 tons or more, same basis lb .15 - —
Zinc oxide, French process, green seal, bgs., l.c.l., smaller lots, same basis lb .14½- —
red seal, bgs., c.l., same basis lb .14 - —

VITAMIN A ROCHE
LIQUID PRODUCTS

Laboratory Data Sheet VITAMIN A ROCHE
Liquid Vitamin A Palmitate and Acetate

Roche has all popular types for your manufacturing needs

Summarized here for your convenience are facts about the many types of Roche vitamin A and vitamin A & D combinations which meet practically all pharmaceutical needs. Samples and technical literature are yours on request — without charge, of course. Ask your Roche salesman or write.

A Note about Stability of Roche Vitamin A. Roche production facilities and experience insure that all the forms of our vitamin A and A-D combinations have excellent stability characteristics. In the case of *crystalline vitamin A acetate* (Type A2.9) the special handling instructions of the label should be followed to protect the crystals *from oxidation due to exposure to air.*

Liquid Vitamin A Products (See other page for Dry Vitamin A Products)

Type & Name	Usage	Potency (in U.S.P. units per gram)	Other Ingredients
AQUAPALM TM Vitamin A Palmitate, Isomerized	Aqueous multivitamin preparations and multivitamin soft gelatin capsules	1,500,000 to 1,600,000	Butylated hydroxyanisole and butylated hydroxytoluene as antioxidants
Type P1.8/BH Vitamin A Palmitate All Trans	As above, where maximum vitamin A concentration is desired	1,650,000 to 1,800,000	Butylated hydroxyanisole and butylated hydroxytoluene as antioxidants
Type P1MO/BH Vitamin A Palmitate All Trans	In aqueous dispersions, capsulated products, cosmetics and oleaginous preparations	1,000,000	Edible oil plus butylated hydroxyanisole and butylated hydroxytoluene as antioxidants
Type P1MO Vitamin A Palmitate All Trans	In aqueous dispersions, capsulated products, cosmetics and oleaginous preparations	1,000,000	Edible oil only, for standardization
Vitamin A Palmitate and D_2 Blends			
Vitamin A and D_2 Blend 10/1	In aqueous dispersions, capsulated products, cosmetics	1,000,000 Vitamin A 100,000 Vitamin D_2	Edible oil only, for standardization
Vitamin A and D_2 Blend 5/1	As above	1,000,000 Vitamin A 200,000 Vitamin D_2	Edible oil only, for standardization
Vitamin A Special Types			
A1MO Vitamin A Acetate (liquid) All Trans	In oil solutions and gelatin capsules	1,000,000	Edible oil only, for standardization
Type A2.9 Vitamin A Acetate (crystalline) All Trans	Research and special production	2,800,000 to 2,900,000	None

THE STORY OF VITAMIN A—RIGHT FROM ROCHE
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Fine Chemicals Division • **Hoffmann-La Roche Inc** • Nutley 10, N. J.

Zinc oxide, French process, white seal, bgs., l.c.l. 10 tons or more, same basis	lb.	.15	—
bgs., l.c.l. smaller lots, same basis	lb.	.15½	—
Zinc oxide, white seal, bgs., c.l., same basis	lb.	.14¾	—
bgs., l.c.l., 10 tons or more, same basis	lb.	.15½	—
bgs., l.c.l., smaller lots, same basis	lb.	.15¾	—
Zinc oxide, USP, 50 lb.-dms., c.l., frt. alld.	lb.	.15¾	—
50 lb.-dms., l.c.l., 10 tons or more, same basis	lb.	.16¼	—
50 lb.-dms., l.c.l., smaller lots, same basis	lb.	.16¾	—
Zinc phenolsulfonate, NF gran., dms	lb.	.45	.46
NF powd., dms	lb.	.48	.49
Zinc resinate, precip 7.2-7.6% Zn., dms., frt. alld	lb.	.45	—
Zinc silicofluoride, dms, works	lb.	12½	.14
Zinc stearate, USP, ctns., c.l.	lb.	.41	—
	lb.	.41	—
ctns., l.c.l.	lb.	.42	.46
Zinc sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd. E	100 lbs.	8.00	—
bgs., l.c.l., dlvd. E	100 lbs.	9.00	—
Zinc sulfate in bbls 40c higher			
Zinc sulfide, pure, bgs., c.l., dlvd.	lb.	2530	—
Zinc undecylenate, 75-lb fib. dms., f.o.b. works	lb.	2.04	—
Zinc, yellow (see Zinc chromate)			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	10.25	—
bbls., c.l., works	100 lbs.	10.85	—
bbls., l.c.l. works	100 lbs.	11.35	—

Zircon (G) gran., bgs., c.l., works	lb.	.03½	—
Zircon (G) gran., bgs., 5 tons to c.l., works	lb.	.03⅝	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	04	—
bgs., smaller lots, works	lb.	06½	—
Zircon (G) milled, bgs., c.l., works	lb.	04⅛	—
bgs., 5 tons to c.l., works	lb.	04⅜	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	04⅝	—
bgs., 500-1,999-lb. lots, works	lb.	07½	—
Zircon (G) in barrels 1c higher			
Zirconium acetate soln., 13% ZrO_2, dms., c.l. 30,000 lbs. min., works	lb.	23	—
Zirconium hydride powd., electronic grade, dms., works	lb.	14.00	15.00
Zirconium oxide, CP, white, grd., bbls or bgs., works	lb.	1.50	—
Electric-fused lump, bgs., 500 to 1,999-lb. lots, works	lb.	48½	—
bgs., smaller lots, works	lb.	51	—
milled, bgs., c.l., works	lb.	62	—
bgs., 5-ton lots, works	lb.	62½	—
bgs., 1-ton to 9,999-lb. lots, works	lb.	63½	—
bgs., 500 to 1,999-lb. lots, works	lb.	64	—
bgs., smaller lots, works	lb.	66	—
Glass polishing grade, 94-97% ZrO_2, bgs., works	lb.	55	.65
Opacifier grade 85-90% ZrO_2, bgs.,	lb.	.27	.50
Stabilized oxide 91% ZrO_2, milled, bgs	lb.	.62	.85
Zirconium oxychloride, cryst., ctns., 5-ton lots, works	lb.	37½	—
Zinc-formaldehyde sulfoxylate, basic, 300-lb. dms., frt. alld	lb.	26	—
Normal, 250-lb. dms., frt. alld	lb.	.55	—

Acetaldehyde Makers in US Trailed by Europe

—Continued from page 3

Aldehyd GmbH process for making acetaldehyde from ethylene, will bring the New York-based company's acetyl chemical potential above the 500-million-pound mark.

Tariff Commission lists eleven US producers, of which Celanese is one. Eastman Kodak Company is counted twice (Texas Eastman and Tennessee Eastman).

Other makers include B. F. Goodrich Chemical Company, Commercial Solvents Corporation, E. I. duPont de Nemours & Co., Gulf Oil Corporation, Hercules Powder Company, Monsanto Chemical Company, Publicker Industries, Inc,, and Union Carbide Corporation.

It's generallly felt that Celanese's 500-million-pound acetyl mark tops the field. However, Carbide and Eastman are conceded to have most of the balance of the market, with small business scattered among remaining producers.

This is the reason that the Tariff Commission does not report acetaldehyde production: To give out figures would be to indicate the operations of one or two large-volume producers.

In Europe, however, things aren't as difficult, as is shown in a new report on continental acetaldehyde doings by Business & Defense Services Administration.

In 1960, BDSA reports, West Germany put out 300,000 metric tons of acetaldehyde; France, 43,000 tons; Netherlands, 11,000 tons, and in 1959 Italy made 47,139 tons.

In West Germany, Farbwerke Hoechst AG, Frankfurt/Main-Hoechst, and its two subsidiaries—Knapsack Griesheim AG, Knapsack, and Wacker-Chemie, Munich—are planning to expand capacity through switching to a petrochemical basis (ethylene).

Although no published figures are given, it's believed that the expansion because of the shift in raw material emphasis won't be large.

Open Market Sales Limited

Some 95 percent of acetaldehyde produced in West Germany is consumed captively (about the same is true in the US). Open-market sales are limited to small quantities, and in this sense, prices are high. Therefore, it's reasoned that a potential new consumer would have to make his own material.

French output of acetaldehyde in 1960 was 43,000 metric tons, full capacity. Rhone-Poulenc, Usines de Melle and Societe Les Derives Ethyliques are the current producers.

A big boost is expected in output in the near future, however, when a plant at Lacq, based on natural gas, begins turning out material at a 25,000-ton-a-year clip.

The plant, known as Acetalacq, is largely owned by Rhone-Poulenc, Usines de Melle, Pechiney and Saint-Gobain. The industry's output is mainly captive, and market conditions approximate those in Germany.

In the Netherlands, the only producer is NV. Electrozuur-en Waterstofffabriek, Amsterdam, a subsidiary of Royal Netherlands Salt Industry.

The plant produces annually about 11,000 metric tons, with a capacity of 15,000 tons. Carbide is a starting material. Captive use is responsible for about 95 percent of volume.

Italian Output Soars

In Italy, the growth of the industry can be determined by historic performance: 1958 output was reported by the government at 27,543 metric tons; 1959, 47,139 tons.

At that, these figures don't include the output of Agenzia Nazionale Hydrogenozine Combustibili (ANIC), which makes acetaldehyde from natural gas and turns it into synthetic rubber. Information on total output, captive use and expansion is unavailable, says BDSA.

Other Italian producers are: Montecatini SpA, output partly captive and partly for sale; Societa Italiana Serie Acetica Sintetica (SISAS), part of output sold; Esperis SA; Distillerie Italiane; Sicedison SpA.

Sicedison currently uses all its output, but expects to be able to sell 50-100 metric tons a month by the end of this year. Starting materials in Italian industry vary. Calcium carbide, natural gas and oil are used.

Fertilizer Ingredients

—Continued from page 5

project at its Bonnie phosphate chemicals plant in order to manufacture 100,000 tons a year of the new nitrogenous product.

The material will contain 18 percent nitrogen and 46 percent P_2O_5. Bonnie currently produces triple superphosphate, superphosphate, phoshoric acid, feed phosphates and sulfuric acid.

Demand for the recently-developed high-analysis diammonium phosphate is growing rapidly, especially in the midwest, IMC reports.

VITAMIN A ROCHE
DRY PRODUCTS

Laboratory Data Sheet **VITAMIN A ROCHE**
Dry Vitamin A Palmitate and Acetate Beadlets

Type & Name	Usage	Potency (in U.S.P. units per gram)	Other Ingredients	Mesh Size
Dry Vitamin A Products (See other page for Liquid Vitamin A Products)				
PALMABEADS™ 500 Dry Vitamin A Palmitate Beadlets type 500	For dry preparations: tablets, capsules, etc., where special or unusual stress conditions exist (i.e. high moisture exposure)	500,000	Gelatin, carbohydrate, butylated hydroxyanisole, butylated hydroxytoluene, and sodium bisulfite as antioxidants	ROCHE SPECIAL MESH RANGE TO ASSURE MAXIMUM UNIFORMITY IN DRY PREPARATIONS
PALMABEADS™ 500A/50D Dry Vitamin A Palmitate with Vitamin D_2 Beadlets		500,000-A 50,000-D_2		
COLD WATER DISPERSIBLE: Dry Vitamin A Palmitate Beadlets type 250-CWS	Water dispersible. For dry products to be reconstituted before use. This form is not recommended for tabletting	250,000	Vegetable gum, sugar, starch, butylated hydroxyanisole and butylated hydroxytoluene as antioxidants	
COLD WATER DISPERSIBLE: Dry Vitamin D_2 Beadlets type 500-CWS		500,000	As above plus corn oil	
COLD WATER DISPERSIBLE: Dry Vitamin A Palmitate and D_2 Beadlets type 250-A/50D-CWS		250,000-A 50,000-D_2	As above	
Dry Vitamin A Acetate Beadlets				
Dry Vitamin A Acetate Beadlets type 500	For dry preparations: tablets, capsules, vitamin-fortified powdered supplements	500,000	Gelatin, sugar, and starch	40 and 60
Dry Vitamin A Acetate and Vitamin D_2 Beadlets type 500A/50D		500,000-A 50,000-D_2	As above	40 and 60
Dry Vitamin A Acetate and Vitamin D_2 Beadlets type 500A/100D		500,000-A 100,000-D_2	As above	40 and 60
Dry Vitamin A Acetate Beadlets type 325	For tablets, capsules, vitamin-fortified powdered supplements	325,000	As above	40 and 60
Dry Vitamin A Acetate and Vitamin D_2 Beadlets type 325A/32.5D		325,000-A 32,500-D_2	As above	40 and 60
Dry Vitamin D_2 Beadlets type 850		850,000-D_2	Gelatin, sugar, corn oil, starch, and butylated hydroxyanisole, butylated hydroxytoluene as antioxidants	40 and 60

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Bids Wanted

Compressed Gases, Nitrogen, Oxygen, Acetylene, Argon, Liquid Nitrogen, to be furnished in government-owned cylinders. Various quantities. Bid IFB CML-18-108-61-200B June 21. U. S. Army Chemical Center Procurement Agency, Army Chemical Center, Md.

Herbicide-Powder, containing 85 percent min. sodium salt of 2,2 dichloropropionic acid. 2,2,-Dichloropronionic Acid Equivalent 74 percent; remainder inert ingredients; packed in 50 pound dums. Estimated quantity, 25,000 pounds. Bid IFB 61-192, June 9. Open-end type contract commencing July 12 for a period of one year. US Army Chemical Procurement District, New York, 290 Broadway, New York 7, N. Y.

Oxygen (including furnishing of a storage facility). Approximately 1,330,000 cu. ft. Bid IFB 151-61-207, June 7. Above requirements are estimated annual requirements. US Atomic Energy Commission, Paducah, Ky.

Oil, Paint and Drug Reporter

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A LOOK AT THE FIGURES

Chemicals Production: How It's Going

		March 1961	March 1960
Acetic Acid, Synthetic	lbs.	65,791,688	65,109,011
Acetone	lbs.	63,945,365	69,103,295
Ammonia, Anhydrous	tons	463,302	423,351
Benzene	gals.	40,657,298	44,649,086
Chlorine	tons	373,773	397,160
Formaldehyde (37% basis)	lbs.	145,532,384	156,860,720
Methanol, Synthetic	lbs.	164,728,882	169,475,645
Phthalic Anhydride	lbs.	30,993,540	36,549,718
Sodium Hydroxide (Caustic Soda 100% NaOH)	tons	399,804	428,283
Sulfuric Acid (100% H_2SO_4)	tons	1,557,954	1,619,055

Sources: Tariff Commission, Bureau of Census

Plastics vs. Metals

In its expectations—at least hopes—that it will be enabled to increase its rate of production progressively, the steel industry, no doubt, gets more than a little encouragement from the chemically improved galvanizing process note on page 34 in OPD of May 22. But, it has big reason to be shaking in its boots because of the inroads being made by the chemical industry's plastics division in various fields of utilization of ferrous and other metals.

In some part, the steel hopes are based upon the belief in the automotive industry that its market is due for a substantial upturn. But, there is much talk, that is not idle, about plastics having a steadily increasing role as a material for automobile bodies. The same sort of talk can be heard with reference to the construction of airplanes and even in areas of architectural materials.

A plain, down-to-earth aspect of the progress in the replacement of metals by plastics was convincingly presented at an engineering, marine, welding, and nuclear energy [some scope!] exhibition recently in England when a plastics producer exhibited a system of plastic pipelines and a chemical storage tank made of reinforced plastic. The pipe, which is normally offered in bores of from 4 to 15½ inches, is said to be as strong as steel pressure-pipes, but of only one-fourth the weight, and ten times as flexible for laying on uneven surfaces. It is made from high-strength glass and acrylic fiber and thermo-setting epoxide resin, rovings of the material being automatically wound on pre-heated mandrels, giving a perfectly smooth inner surface. A somewhat similar process is used in making the chemical storage tanks from plastics reinforced with specially developed resins. A number of them are reported to have proved fully satisfactory as containers for radio-active effluent at a UK atomic energy research establishment.

The plastics age is dawning. Exit the iron age !— —?

Some World Trade Views

The Presidentially proclaimed World Trade Week (May 21-27) was—as was to be expected—a popular occasion for variously contributed supporting of the President's urging that US business do more selling abroad so as to straighten out that obnoxious misbalance-of-payments drain upon this country's somehow sometime necessary supply of gold.

Naturally, a big part in that "public service" was taken by the Secretary of Commerce in a New York luncheon talk to what was said to be "more than four hundred government and foreign trade officials," covering his recent ten-day tour of six countries in Western Europe, during which he was "convinced more than ever that there is a great potential abroad for the increased sale of American goods—if we wake up to those opportunities and use a little of the solid selling overseas that we talk so much about at home."

In a talk of the week to a luncheon audience in Newark, N. J., the export sales manager of a US company gave some very good advice with respect to "one of the few remaining frontiers for American industry today—the profitable export and distribution of products overseas, where the demand for many US products is rising at a better rate than in this country."

There were other promoters of the export-urge during the week, but none of them was reported to have been candid enough to advise, as did the chemical industry offical quoted on foreign trade in OPD two weeks ago, that "we keep our costs under control and can sell abroad at prices which are competitive."

Strange as it may seem to all such commenters, the Department of Commerce reported May 21 that "American exports to Russia and her European satellites increased in 1960 to a thirteen-year high, with a gain of 116 percent over 1959 exports total." What's the answer?

Note to the Drug Industry

Hospitals in the New York-New Jersey metropolitan area are seriously troubled with a shortage of medical and other necessary trained help. Some of them are reported to be faced with a threat of having to limit their services —even being closed by misunderstanding officialdom, disregardful of the needs of the people.

There is reason to believe that the condition is not confined to the NY-NJ area but is more or less in existence throughout the country. The drug industry can do more than a little to assure the satisfactory serving of those needs. It can—and in its particular devotion to public service it should—set up a foundational fund for the assistance of basically qualified young persons—whom it is particularly fitted to identify and select—in getting medical education. It should also financially help the hospitals to get and to retain such persons, when graduated, for staff services as interns and otherwise. Such contributing to a necessary public service would have a very desirable value in public relations.

Meetings

ACHEMA 1961, German chemical engineering exposition and congress, Frankfurt am Main, Germany, June 9-17.

Air Pollution Control Association, annual meeting, Commodore hotel, New York, June 11-15.

American Chemical Society, national meeting, Chicago, September 3-8.

American Society for Testing Materials, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., June 25-30.

Association of Food & Drug Officials of the United States, annual conference, Mayflower hotel, Washington, D. C., June 18-23.

Chemical Buyers Group of National Association of Purchasing Agents, annual meeting, Conrad Hilton hotel, Chicago, June 6.

Chemical Market Research Association, Sagamore hotel, Bolton Landing, Lake George, N. Y., September 11-12; Mark Hopkins hotel, San Francisco, November 28-December 1.

Drug,Chemical & Allied Trades Association, spring luncheon meeting, Commodore hotel, New York, June 21; annual meeting, Pocono Manor Inn, Pocono Manor, Pa., September 14-17.

Federation of Societies for Paint Technology, annual meeting, Shoreham and Sheraton-Park hotels, Washington, D. C., November 2-4.

International Congress on Pure & Applied Chemistry, Montreal, Canada, August 6-12.

Manufacturing Chemists' Association annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 8-10.

National Agricultural Chemicals Association, annual meeting, Homestead, Hot Springs, Va., October 29-November 1.

National Chemical Exposition, sponsored by the Chicago section of the American Chemical Society, International Amphitheater, Chicago, September 5-8.

National Paint, Varnish & Lacquer Association, annual meeting, Statler-Hilton hotel, Washington, D. C., October 30-November 1.

National Plant Food Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-14.

Plastics Exposition, sponsored by the Society of the Plastics Industry, Coliseum, New York, June 5-9.

Society of the Plastics Industry national conference, Commodore hotel, New York, June 5-9.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, June 13.

Washington Talks It Over

Chemical Men Who Thought They Were Losing Their Know-How to the Russians Can Now Relax Again; It Looks as Though the Kennedy Administration Won't Give It Away.

By Ralph L. Cherry
Washington Editor

Chemical producers can feel quite relieved over the way the issues that developed over export controls early in the Kennedy administration are finally straightening themselves out.

The President recently appointed a three-man Cabinet-ranking board to make the policy decisions on loosening up on controls, which means that there probably will be no major changes in the program in the foreseeable future.

The aims of the President are to prevent a repetition of what happened with reference to the machinery for making ball-bearings which Russia wanted to buy from this country last February.

It will be recalled that Secretary of Commerce Luther Hodges first could see no harm in issuing a permit for export of the machinery. He took another look after hearing from the Defense Department and some influential people on Capitol Hill, and decided that the shipment might not be in the best interests of this country after all.

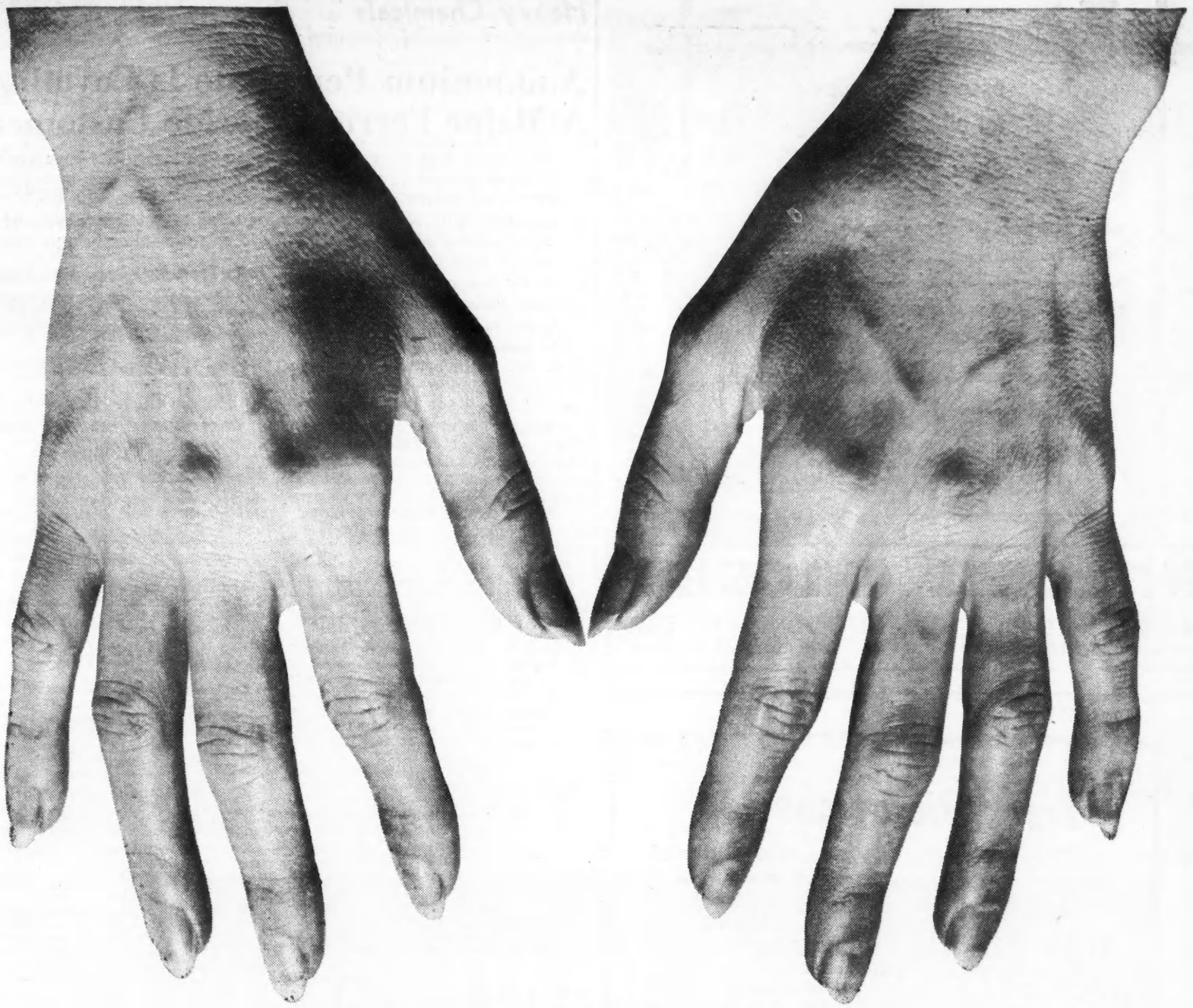
The whole thing, however, had the effect of giving notice to the chemical industry to be on its toes; that unless Mr. Hodges clearly understood the facts there was danger that he might let down the bars to the exporting of chemical know-how—one thing above most else Russia would like to get from this country.

With three men riding herd on export control policy changes, however, the danger of this taking place has now largely been eliminated. And even more so when the fact is considered that there are to be no changes made in policy that do not have the unanimous approval of the group, or are dictated by the President.

Where opinions are divided, the matter will be handed to the President to make the decision.

The three-man board consists of Secretary of Commerce Hodges, Secretary of Defense Robert S. McNamara, and Secretary of State Dean Rusk. Mr. Hodges will serve as chairman.

A lower-level inter-agency group to be set up by the Commerce Department will do the spade work on problems that eventually find their way to the Cabinet board.



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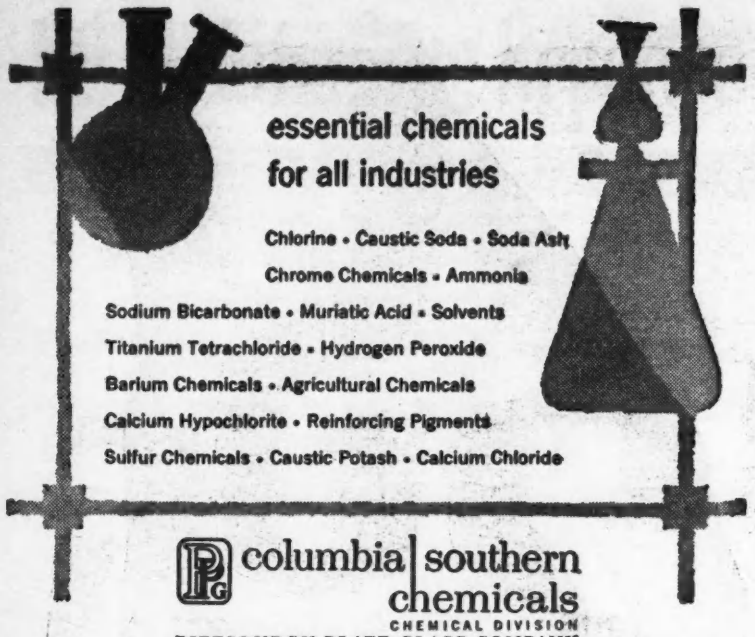
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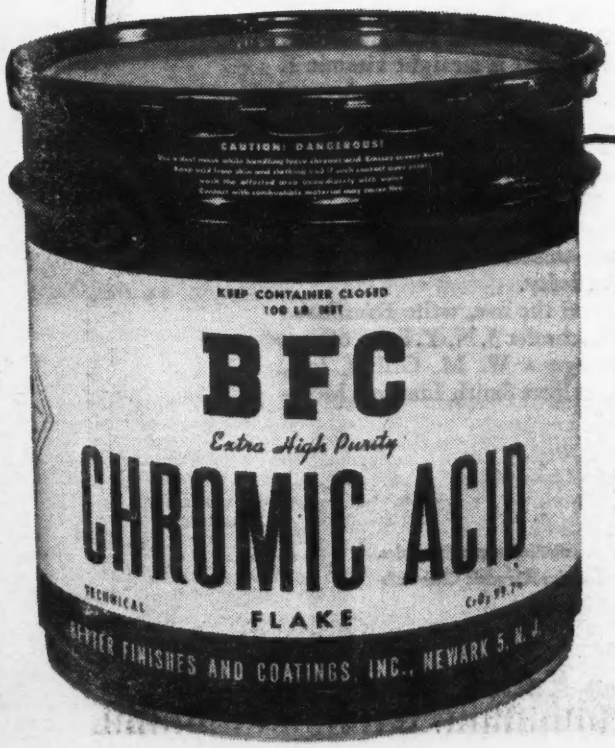

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Heavy Chemicals

Ammonium Persulfate Is Coveting A Major Ferric Chloride Customer

Starting at zero three years ago, metal-treating outlets have come to comprise 85 percent of the ammonium persulfate business, according to one producer's estimate. Chief of these outlets (and one with the biggest promotional push behind it) is in the etching of printed circuits, where the material is bidding to replace ferric chloride—after being dislodged by chloride from a slot in the photo engraving business. A persulfate producer estimates that 25 percent of the printed circuit market has already been put in persulfate's column, but another trade source, in the ferric chloride camp, says the figure is much too high.

It's impossible to get an estimate on what tonnage of etching material is represented by this market, but while it might be small in relation to ferric chloride's end-use pattern, it's believed to account for the bulk of the 85 percent persulfate sales to metal-treating outlets.

The producer quoted above estimates that some 12 to 14 million square feet of printed circuits are made annually, and cites this as evidence, for what it's worth, that the volume of sales involved is "substantial."

Ammonium persulfate was first offered for printed circuits only a year ago, so that if the 25 percent estimate is nearly correct, trade acceptance has been good.

Promotion of the material is based on its allegedly being less corrosive than ferric chloride and transparent so that "you can see what you're doing."

Further, whereas ferric chloride producers concede that chromic acid must be used in place of chloride when the circuit is plated with lead-tin, persulfate is said to fill the bill for all types of circuits.

Needless to say, the latter claim is disputed by the ferric chloride makers. And the former are regarded with skepticism.

Other metal-treating outlets for persulfate include cleaning of copper and its alloys, and some etching of brass, but the big play is in printed circuits, where the material, competing evenly with ferric chloride in price, has rested its case on "superior performance."

Price Trends

Advanced
Tin metal (Straits), ¼c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 3, 1960
106.85	106.84	106.81	106.88

For Current Prices See Page 9

Acids

Hydrochloric—Business has picked up substantially though slowly with the gradual upturn of steel operations. Chemical accounts, lagging badly earlier in the year, have also picked up steam. Prices show the same spotty pattern prevailing for many months. The recession, reportedly, brought no new pressure on prices.

Hydrofluoric — Captive operations by the aluminum industry have fallen sharply with the downtrending production of the light metal. Prices continue as previously for open market material, which is finding renewed demand in chemical accounts.

Nitric—Fertilizer season was a disappointing one which brought no fillip of demand for open market nitric. Steel, of course, has brought some help to sales charts with its long awaited upturn.

Sulfuric—Trade sources are still eyeing the east coast sulfuric market for signs of a response to higher-priced sulfur, but no such signs are apparent yet, prices continuing at the usual discounted levels. Outlook remains clouded by the business recession, which though easing, still holds sulfuric down.

Bases and Salts

Antimony Compounds—In line with higher antimony, a producer will raise pentachloride by 2½c. and trichloride by 3½c., effective July 1. Antimony was advanced 5c. a pound last month because of short supply coupled with strong demand.

Potassium Chloride—Late Friday a major producer said it was raising the price of refined chemical grade potassium chloride $2 a ton, effective July 1, New prices will be $31 in bulk and $36 for bags, f.o.b., Carlsbad, New Mex.

Sulfur—The following figures compiled by the Bureau of Mines, show production and shipments of sulfur during specified periods.

	March	February
Native production	454,438	357,078
Shipments	424,782	355,516
Sales*	381,636	351,559
Stocks†	3,776,030	3,703,228
Recovered production	75,054	62,789
Shipments	80,713	62,104
Sales*	79,887	62,041
Stocks†	106,448	111,281

* Calculated from production and change in stocks during the period.
† Producers stocks at mines or plants in transit, and in warehouse at end of period.

Nonferrous Metals

Aluminum — Production of primary aluminum in March totaled 152,023 short tons, the Bureau of Mines reports. This was a substantial improvement over February's 138,560 tons, but shipments for the first quarter, at 433,601 tons, were down sharply from 491,536 tons in the comparable period of 1960, Mines notes.

Mercury—Production of mercury at US mines totaled 8,150 flasks in the first quar-

Inorganic Chemicals Output: March

The following figures compiled by the Bureau of Census indicate production of industrially important inorganic chemicals, in tons.

	March	Feb.
Aluminum chloride, anhyd	2,053	1,661
liq., cryst	1,548	1,568
Aluminum sulfate, coml.	70,993	66,459
iron-free	4,215	3,764
Calcium carbide	(NA)	(NA)
Carbon dioxide, liq., gas	39,062	32,464
solid	30,150	24,574
Chloride gas	373,773	333,446
liquid	196,525	*174,814
Hydrochloric acid	74,895	*67,088
Hydrofluoric acid	9,801	8,422
Hydrogen peroxide	2,759	2,312
Nitric acid	295,366	272,534
Phosphoric acid	205,591	179,939
Phosphorus, elemental	37,806	32,245
Phosphorus oxychloride	2,254	1,601
Phosphorus trichloride	1,825	1,799
Potash, caustic, liq.	10,608	8,121
solid	1,627	1,413
Soda ash., syn., light	185,221	169,060
syn. dense	173,639	152,422
natural	71,789	68,213
Soda, caustic, liquid	399,804	352,781
dry	42,050	43,781
Sodium bichromate and chromate	10,325	8,517
Sodium chlorate	8,857	*8,278
Sodium hydrosulfite	2,415	2,409
Sodium metal	(NA)	(NA)
Sodium phosphate, tribasic	4,713	4,436
Tetra	7,102	7,254
Meta	5,597	4,740
Acid pyro	1,659	1,473
Tripoly	69,276	55,907
Sodium silicate	41,736	*36,328
Sodium sulfate, anhyd	25,699	*21,923
Glauber's salt	5,855	*5,268
Salt cake, crude		
Sulfuric acid, gross	1,557,094	1,388,695

(NA) Not available.
* Revised.

Heavy Chemicals

ter, down 19 percent from the preceding quarter, but 16 percent better than the corresponding period of 1960, the Bureau of Mines reports. Imports totaled 3,061 flasks as compared with 2,186 in the 1960 period.

Silver—Market continued steady at 91⅜c. a troy ounce, spot.

Tin—Continuing its run of strength, tin closed at $1.11¼ a pound spot, up ¼c. from a week earlier.

Heavy Chemical Briefs

GO OLIN YOUNG MAN: The familiar cowboy trademark of Western Brass products has been slated for gradual replacement by the parent company's new streamlined trademark: "Olin." The trade name has already been changed to Olin Brass.

LITHIUM CORP. OFFERS SAMPLES: 2,6-Dimethoxyphenyllithium samples in units of approximately fifty grams are now available from Lithium Corporation of America. The product is a white-to-tan, free-flowing powder, essentially free of lithium halides, non-pyrophoric and moderately soluble in hydrocarbons.

Paper Production Lower

The American Paper & Pulp Association reported paper production for the week ended May 27 at 91.2 percent of theoretical capacity, as compared with the revised figure of 91.8 percent for the previous week and 97.0 percent for the corresponding week of last year.

Petrochemicals: Sweden

—*Continued from page 7*

companies and the quasi-official Royal Academy of Engineering Sciences.

The study is being made against this backdrop of chemical trade statistics:

- Chemical imports increased from $149 million in 1958 to $363 million in 1959. The US stake rose from $16 million to $28 million.
- Overall Swedish chemical requirements more than doubled between 1950 and 1958, and with domestic producers unable to keep pace, imports had to be trebled.
- Exports of chemicals increased from $41 million in 1951 to $53 million in 1958 and $66 million in 1959.

Ammonia Installation

—*Continued from page 3*

completion slated for the second half of 1963.

Norsk Hydro, which uses ammonia in its fertilizer production plants, has signed a twelve-year contract with Norsk Koksverk for the ammonia—except for 15,000 tons a year which Koksverk can use for other purposes.

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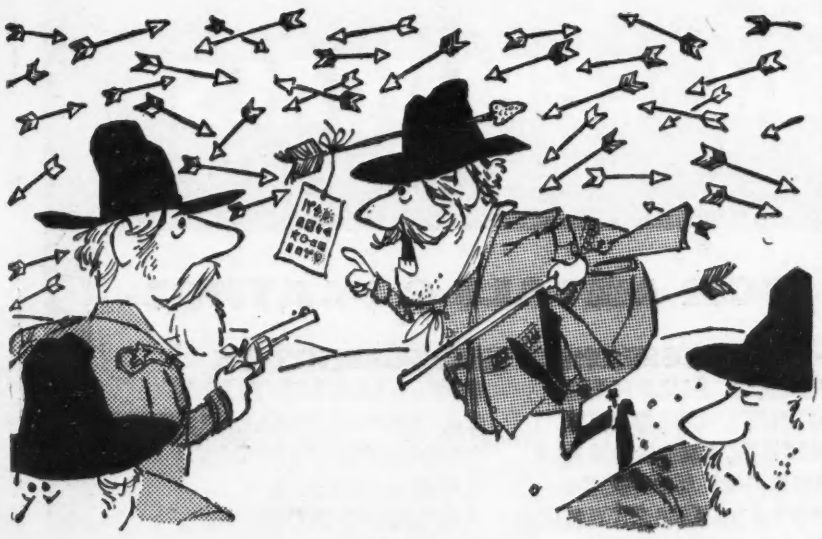

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Jobs & People

Borden Chemical Company, New York—**Arthur Case** has been named development chemist for the adhesives and chemicals division at the division's headquarters in Bainbridge, N.Y.

Celanese Corporation of America, New York—**George F. Ferris**, chairman of the board of Raymond International, Inc., New York, has been elected a director of Celanese.

Dow Corning Corporation, Midland, Mich.—**Jack Wehrly** has been named manager of resin sales to the paint and masonry finishes industries.

Jefferson Chemical Company, Houston, Tex.—**R. S. Smith** has joined the Austin, Tex., laboratories as senior technical service representative.

McNeil Laboratories, Inc., Philadelphia—**Eugene C. Dooner, jr.**, has been elevated to hospital field manager.

S. B. Penick & Co., New York—**William F. Lacey** has been appointed sales representative for Brooklyn, Long Island, and Staten Island, N.Y.

Roche Laboratories, a division of Hoffmann-La Roche, Inc., Nutley, N.J.—**Conrad Wilmar** has been elevated to assistant in education in the department of sales education.

Solvay Process Division of Allied Chemical Corporation, New York—**Dr. Charles E. McGinn** has been named assistant director of research.

Ungerer & Co., Inc., New York—**George Branigan**, vice-president in charge of the company's New York laboratories and New Jersey plant, recently returned to the US after an extensive tour of South America.

Wyeth Laboratories, Philadelphia—**Peter G. English** has been named to the newly-created position of product manager for infant nutrition formulas.

Dow Plans to Double

—Continued from page 4

lower prices are part of an effort to encourage market expansion, a spokesman for Dow says.

Elsewhere in the cellulosics business, others have been just as active:

• In March, Hercules Powder Company slated a "multi-million pound" plant at Hopewell, Va., to make "Natrosol," its trade-named hydroxyethyl cellulose (OPD, 3/27/61).

• Union Carbide Corporation, also in March, reduced prices 10 cents a pound for all but the highest viscosity grade of hydroxyethyl cellulose (OPD 3/27/61).

• Rayonier, Inc., in April, introduced "Ethylose," a purified wood cellulose modified with a small amount of ethylene oxide (OPD, 4/17/61).

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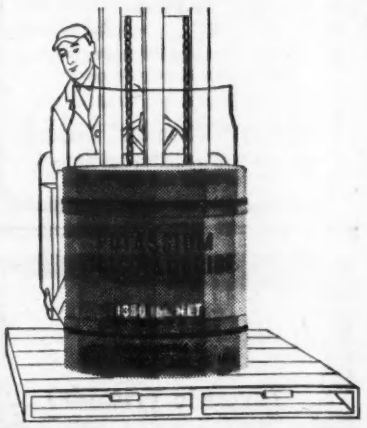

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Triethylene Glycol Okayed For Packaging Material Use

Triethylene glycol has been cleared as safe for use as a plasticizer in cellulosic packaging material by Food & Drug Administration under the food additives law.

The agency ruled the chemical to be a food additive that can be used with safety in food packaging material provided it contains less than 0.1 percent of diethylene glycol.

FDA also has amended the definition for frozen desserts to permit the use of mono- and di-glycerides as optional ingredients.

Polyoxyethylene (20) sorbitan tristearate, polysorbate 80, and polysorbate 60 were given clearances by the agency for use as emulsifiers in frozen desserts and certain other food products.

Rocket Fuel Pact Inked By Thiokol, French Firm

Thiokol Chemical Corporation, Bristol, Pa., and Societe d'Etude de la Propulsion par Reaction (SEPR), of France, have entered into an agreement providing for sales agency arrangements in their respective territories in the field of rocket engines using solid propellants.

The agreement also calls for the exchange of related technical information "to the extent which may be permitted from time to time by the governments of the United States and France."

For Thiokol, the territory is the US; for SEPR. the territory is continental Europe, Turkey and Iran.

Nuclear Waste Role

—*Continued from page 7*

for ordinary storage batteries in remote locations for weather stations, navigational lights, sonobuoys (underwater listening devices) and the like.

Other applications of strontium-90 may include thickness gauges, static eliminators, and radiation sources to induce certain chemical reactions such as polymerization (the linking together of individual molecules of a compound to produce larger molecules, in order to change the physical properties of the compound.

The principal interest in cesium-137, a beta and gamma emitter, is for application in gamma irradiation devices such as teletherapy, radiographic and research units.

Preservation of food and sterilization of medical supplies are additional possible applications. Cesium-137 may also find applications in radiation chemistry and in nuclear batteries.

Cerium-144 may also be used in nuclear batteries as a power source. It is a relatively abundant fission product, but has disadvantages of a shorter half-life (285 days) and a high gamma output, which requires heavy shielding.

Other fission products to be recovered, if sufficient demand develops, are zirconium-95 and promethium-147.

Kefauver Date Difficulties

—*Continued from page 3*

hearings off with testimony from the American Medical Association.

The June 20 date, however, does not fit in with the AMA schedule. The association has informed the senator that it would prefer to hold off until July 5 or 6. Sen. Kefauver hasn't decided yet whether to go ahead with the June 20 date and schedule other witnesses, postpone the hearings until the following month, or go to some other phase of the committee's work for June 20.

The AMA has two spokesmen lined up to present its testimony when the hearings are called. They are Dr. Hugh Huffey, dean of Georgetown Medical College, and Dr. Ernest B. Howard, assistant executive vice-president of the association.

Polyformaldehyde Battle

—*Continued from page 3*

erties when in contact with certain metals.

• Molding processability of "Celcon" is appreciably superior to that of "Delrin"; the Celanese resin molds faster, easier and with less sensitivity.

At the same meeting, Harold Blancke, Celanese's chief executive officer, told the security analysts that his company will spend $140 million in the next five years on expansion.

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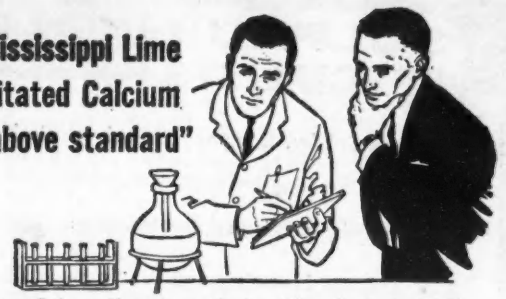

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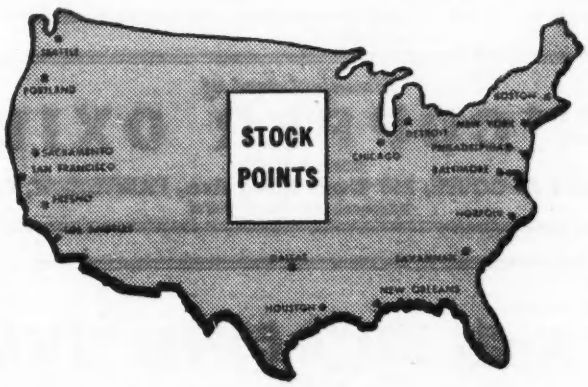

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OPD Reports From Europe

German 'Big Three' Have No Fear

—*Continued from page 5*

plastics from the US, partly a result of revaluation, and increased productive capacity were reasons cited for the cuts.

Sales results for the "Big Three" last year show only Hoechst was able to increase 1959's growth rate with a gain of 21.7 percent to $675.7 million, against a 1959 sales increase of 17.6 percent. Hoechst edged out BASF for second place behind Bayer's volume of $704.5 million, up 14.6 percent over 1959. BASF showed total sales of $647 million, up 14 percent.

Bayer says that first quarter 1961 sales were above the fourth quarter of 1960 and exceeded the first three months of 1960 by 10 percent, indicating some possible further slowing of the company's growth rate. In 1959, Bayer's sales grew 22.3 percent; BASF's, 17.5 percent; and Hoechst's, 17.6 percent.

Rise in Exports Seen Needed

Dr. W. Kufuss, of Cassella Farbwerke and chairman of the trade policy committee of the Chemical Industry Association, argues that the economic need for higher sales volume to keep plants operating close to capacity has been increased by revaluation and as a result of chemical exports should continue to rise.

In fact, exports of the three major IG Farben successors maintained roughly the same percentage of their total sales: Bayer's shows exports at 44.8 percent of sales against 43.3 percent in 1959; Hoechst, 32.7 percent against 32.4 percent, and BASF 37 percent from 38 percent.

The Hoechst report shows its 1960 sales volume pattern with increases in the proportion for fibers, films and drugs. Fibers and films accounted for 17 percent of sales, against 14 percent in 1959, and drugs rose to 10.5 percent from 10 percent.

Other product area percentages were plastics, 20 percent in each of the last two years; dyestuffs and textile chemicals, 16 percent in 1960 and 17 percent in 1959; fertilizers, down to 10.5 percent from 12 percent, and general organic and inorganic chemicals, 26 percent against 27 percent.

BASF shows a split-up, with plastics and fibers taking 45 percent of sales volume, dyestuffs and textile chemicals 18 percent, fertilizers 18 percent and inorganic and organic chemicals 12 percent.

Current major Hoechst expansion projects include extending capacity for vinyl chloride monomer and polyvinyl acetate, an increase in chlorine capacity to 275,000 tons a year and steady increases in capacity for plastics and particularly its polyester fiber.

BASF is raising its phthalic anhydride capacity this year and is constructing caprolactam and dimethylterephthalate units. Other expansions are planned for maleic anhydride, formaldehyde, monomethylamine and dimethylamine.

New Sodium Boronate Process

Bayer announces a new sodium boronate process which it claims will enable it to reduce costs and prices and so stimulate applications. Sand and sodium are reacted under a hydrogen atmosphere and pressure.

Each of the three is now closely associated with a major international oil firm in developing petrochemicals in Germany. Hoechst is the latest with a recent contract to take large-volume petrochemical raw materials from a refinery Caltex will build in Frankfurt.

BASF and Shell jointly own Rheinische Olifinwerke whose sales last year are estimated to have risen to $50 million. Capital spending by Rheinische Olifinwerke in 1960 was about $30 million. Bayer and the German subsidiary of British Petroleum jointly own Deutsche Erdoelchemie, which last year started up a cracking plant plus units for manufacture of ethanol, ethylene oxide, ethylene glycols and butadiene. More units are under construction.

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Agricultural Chemicals

Fertilizer Discounting Lingers On; DDT Prices Cut 2 Cents a Pound

Despite the move by one producer to end discounting on nitrogenous materials and July 1 boosts on urea by another (OPD, 5/29/61), the drive to bolster the fertilizer pricing structure does not appear to be taking hold. This became apparent last week with the disclosure by a third maker of the first comprehensive price schedule for the 1961-62 fertilizer year.

Newest wrinkle in the marketing of urea is its reorientation along the lines of ammonium nitrate. According to the latest fertilizer price action, urea will be sold under the zone divisions that apply to its biggest nitrogen competitor, ammonium nitrate.

Meanwhile, in an effort to beef up lagging demand, DDT listings have been cut 2 cents a pound. Though there is a deep concern over the shrinking profit margin on DDT at 21 cents a pound, the majority of makers are going along with the price reduction to hold on to their customers.

The use of zones in the new urea marketing scheme, explains the producer, is to delimit those areas where urea might run into cheaper imported material.

In the northeast and southeast, imports of urea—while not entering the domestic market in great quantity (monthly average 7,000 tons)—are sufficient to upset established prices for the nitrogenous material in those areas.

In addition, the new marketing procedure is expected to put urea on a more competitive basis with ammonium nitrate when considered on a unit content of nitrogen.

Other items on the schedule are: a price of $150 per ton for ammonia-ammonium-nitrate-urea solutions, effective May 16, 1962. Seasonal discounts are being granted starting with a price of $126 per tons from August through September and $132 per ton from October through May 15, 1962. The current f.o.b. price for these solutions is $132 per ton of nitrogen.

Solid ammonium nitrate prices remain the same as in 1960-61, with the seasonal discount prices from August through September, 1961, quoted at $64 per ton and from January forward, $70 per ton.

The DDT cut, which puts the material at 21 cents a pound, runs counter to the higher raw material prices producers have been paying. What's more, it shatters a long-held belief in the trade that the pesticide would never be sold under 22 cents (its price in 1959).

Price Trends

Advanced
None

Reduced
DDT, 2c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 3, 1960
117.69	117.70	111.70	109.97

For Current Prices See Page 9

Animal and Plant Foods

Ammonium Sulfate—Fertilizer use has been inhibited by the poor fertilizer application weather. Supplies of sulfate are on the increase as the demand decreases and cokeoven output increases. Prices are reported to be unchanged.

Animal Proteins—The market for fishmeal and scrap continued on the firm side as quotations for meal held to the $115 per ton level, unchanged from previous week. Scrap was at its usual $4 per ton discount. Both prices are on the basis of bagged material, Atlantic and Gulf coasts.

Nitrogenous Fertilizers—Losses in starter fertilizer shipments earlier in the Spring will probably be made up later, producers report. They expect that farmers will increase side-dressing applications to compensate for land neglected during the abnormally wet Spring.

Even with the added side-dressing applications, producers expect that nitrogen fertilizer shipments will just about equal the level hit in 1960. The projected increase in fertilizer use this season was washed out in this Spring, producers note.

The two big factors in the cuts in fertilizer use are the weather and the affect of the administration's land retirement program. One producer estimates that between these two factors, his losses in nitrogen fertilizers are about 18,000 tons. Pro-rated across the entire nitrogenous fertilizer industry this would account for a sizable chunk of business.

The land taken out of production (about 20 million acres) has certainly had its effect on fertilizer use. But the feeling in the trade is that farmers will dump more fertilizers on their active land to obtain optimum yields.

The big unknown in the fertilizer market is the large number of farmers that do not use fertilizers at all. Estimates range from 30 to 60 percent of farmers in many areas of the US are not fertilizer users. One market study reveals that in some areas of the corn belt as many as 65 percent of the farmers rarely used chemical fertilizers.

If a substantial number of this group could be educated in the use of fertilizers, the effect on the market would be fantastic.

Potash—Listings for potash of West European origin have been announced for the coming fertilizer year. The new schedule calls for boosts of $1.80 per ton for semi-coarse and $2.40 per ton for coarse.

Sulfate will be increased $1.50 to $4.20 per ton depending on contract period. The increases on imported potash are reported to be in line with the schedules announced earlier by domestic producers.

Urea—According to the newest schedule for the 1961-62 fertilizer year, one producer has introduced a new method in marketing urea. The new schedule calls for a zoned domestic market similar to that used in marketing ammonium nitrate.

Another innovation will be the offering of discounts on urea.

Zone 1 consists of the following states: Ohio, Kentucky, Tennessee, Alabama, the area west of those states and including those states and eastern New Mexico, eastern Colorado, the southwest corner of Wyoming and eastern North Dakota.

Zone 2 consists of the entire Northeast and Southeastern states. In zone 2 urea will be sold on an f.o.b. freight equalized to nearest competitior basis while in zone 1 delivered prices will prevail.

For urea delivered in zone 1 during the months of August-Sept. the price will be $89.25; October-December $93.25; and January forward, $97.25. For urea sold in the Northeast and Southeast, 50 ton shipments, (f.o.b.) the August-September price will be $87.25; October-December $91.25; and January forward, $95.25.

Superphosphate & Other Phosphatic Fertilizer Production

Following are data compiled by the Bureau of Census indicating superphosphates and other phosphatic fertilizer produced and shipped in the United States for the calendar year 1960. All material is 100 percent P_2O_5 in short tons.

	1960 *In short tons 100 Percent P_2O_5*		1959 *In short tons 100 Percent P_2O_5*	
	Production	*Shipments*	*Production*	*Shipments*
Normal and enriched	1,269,523	671,061	1,395,504	682,802
Concentrated	985,636	898,747	893,202	890,007
Other phosphate fertilizer	131,043	107,684	120,599	118,681
Total	2,655,652	1,927,875	2,609,592	1,885,001

Trade Name Chemicals

Amphoterics Not Down Drain Yet, Hope for More Surfactant Business

In the detergents market, where estimated sales of more than 1.6 billion pounds in synthetic organic chemicals were made last year, suppliers of amphoteric compounds have had to settle for a sub-one percent share. Grim as this may sound, producers of these versatile surface active agents aren't ready to throw in the dish cloth yet, and, in fact, have plans for increasing their share of the overall market. However, these producers are the first to point out that amphoterics cannot be considered along with anionics such as the dodecylbenzene sulfonates. They note that amphoterics aren't intended to compete with conventional surfactants, but are more properly considered as adjuncts to big volume anionic and nonionic materials.

AMPHOTERICS: PRODUCTION

1961 . . . . . 3.2 million lbs.
1960 . . . . . 2.9 million lbs.
1959 . . . . . 2.6 million lbs.
1958 . . . . . 2.4 million lbs.
***Estimate**
Source: Tariff Commission

A 70-80 cent a pound price (100 percent active basis) keeps amphoterics in the specialty class and even though some observers venture a guess that prices could get into the low sixties, they also point out that this would not shift commercial interest enough to make it worth while, especially when anionics with good foaming properties are available at 16.9 cents a pound.

Shampoos Use Amphoterics

Two major marketing areas are available to producers of the approximately 2.5-3 million pounds of amphoteric surfactants produced annually. Although use in shampoos provides most of the dollar volume, application in heavy duty industrial detergents scores on a quantity basis, so that there is probably even distribution in the two markets.

In bubble baths, hair and rug shampoos, amphoterics are valued for their high foaming ability, good hair conditioning effects and the fact that they are nonirritants for skin and eyes.

One problem in cracking the hair shampoo market that suppliers have had to contend with is the fact that most shampoo manufacturers insist on formulating at a neutral pH.

At this point, anionic and cationic properties of the amphoteric are about even, and it is also at this point that their foaming and solubility properties are poorest. At a slight increase to pH of 8.0, the foaming property of an amphoteric is markedly improved. Chemical men say this is far from being too alkaline for a shampoo and point out that a soap shampoo can't be made at less than pH 8.7.

In heavy duty liquid cleaners, the amphoteric may be used at a concentration of 10-15 percent plus about an equal concentration of sodium metasilicate and phosphate builders with the balance in water. Concentration in heavy duty powders may be as low as 5 percent without loss of cleaning power.

Commercial Use Is New

Amphoteric compounds have been known for many years, but their commercial use as surfactants in this country has come only during the past decade. These products are somewhat similar to quaternary ammonium compounds, but differ in properties and uses.

Miranol Chemical Company, Irvington, N.J., has been manufacturing a patented series of amphoteric surface active agents since 1950 under the "Miranol" tradename.

Within the next month, the company expects to market products in which the anionic portion of the amphoteric molecule would be a sulfonate rather than the usual carboxyl group.

It's felt that this should make it possible to produce shampoos with more foam, especially at the isoelectric point, than was heretofore possible. At the same time, none of the non-irritant properties of the compound would be sacrificed to gain more foam at high concentrations.

The "Miranol M" series covers a large group of amphoteric surfactants which differ primarily in their fatty acid radical or chemical modifications of the basic structure.

"Miranol CM Conc.," the coconut derivative is considered the most versatile of the series since it is reported very mild but highly effective in all its properties.

General Mills, Inc., notes no dimming of interest in amphoterics. On the contrary, the company says, new areas of use have been developing in aerosol products and in corrosion inhibitor applications.

"Deriphats," with good foaming and corrosion inhibiting properties at pH of 11 or 12, have continued to find use in heavy duty industrial cleaning compounds. Since the amphoteric does act as a corrosion inhibitor as well as a detergent, the formulator gets two jobs done with one chemical, which means a cost saving.

Antara Chemicals division of General Aniline & Film Corporation also supplies amphoterics under a number of tradenames. "Antaron FC-34" is a fatty amido compound as are "Soromine AL" and "AT." The latter compounds are recomended as softeners and lubricants.

Intermediate for Anionics Made

"Methyltaurine 22" (sodium N-methyltaurate) is supplied by Antara in liquid form of 35-37 percent concentration. This product, though it has amphoteric properties, is considered primarily as an intermediate in the manufacture of anionics rather than as an amphoteric surfactant in its own right.

Universal Chemicals Corporation, which specializes in production of heterocyclic fatty derivatives is moving into the amphoteric surfactants field.

The company has issued a new technical bulletin on their patented series of "Uniterge" amphoteric surfactants giving composition, properties and uses.

For the future, these producers of amphoterics anticipate a steady upward growth trend, but nothing explosive. One hope on the horizon is that an amphoteric might get into a household product, an outlet from which they have been barred due to high price.

The government's labeling law, slated to go into effect August 1, would require many relatively simple household products to carry a caution label.

It's conceivable, sources say, that a producer might think it worth his while to have a product on the market which does not carry such a label. Such a product would probably utilize one or more of the non-toxic, non-irritant amphoteric compounds currently available.

Trade Name Briefs

PEROXIDES: Lucidol Division of Wallace & Tiernan reports a reduction in the price of di-tert-butyl peroxide. Under the new schedule, price in 98-lb. drums is $1.75 a pound in drum quantities and $1.71½ in carload lots of 250 drums or more. Prices are on a freight allowed basis. Prices on small containers are unchanged.

SURFACTANTS: Monsanto Chemical Company reports new prices for the company's "Sterox" nonylphenol and dodecylphenol ethoxylates. New price in tankcar or tanktruck, 4,000 gallons or more, is 16.9 cents a pound, dlvd. E. of Rockies, and 18.9 cents a pound for 1,000 to 4,000 gallon quantities. Prices on these quantities delivered W. of Rockies are 2 cents a pound more. Carload of 55-gallon drums is 21.8 cents a pound; less carload, 25.5 cents a pound, dlvd., continental USA.

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Aliphatic Organics

Organic chemicals—excepting ethanolamines—production in March, exceeded February levels by comfortable margins and for eight of the sixteen materials on the Tariff Commission roster (see table below) hit a first quarter peak. In this group were solvents (acetone, ethyl acetate, perchloroethylene and trichloroethylene) as well as such basic chemical building blocks as acetic acid, acetic anhydride, formaldehyde and propylene glycol.

Accompanying the rise in production in March was an upturn in requirements which continued, reportedly, through April and the first half of May. A lack of momentum, however, finds some trade people still questioning the reality of the "economic recovery," and because competitive pressures are greater when sales are down, there is grumbling on all fronts about prices (too low) and inventories (too high).

Neither problem lends itself to an immediate solution, of course, because production capacity has grown so rapidly that today's is a buyer's market. Shortages are seldom if ever encountered and suppliers, who are necessarily emphasizing the service aspects of their business, have been forced to assume the burden of maintaining inventories sufficient to meet requirements for immediate delivery.

Prices have been reduced in several instances of late to discourage new entrants into already crowded markets. The oxo alcohol cuts were due partially to projected expansions, for example, and the glycerine reduction reflected the excess capacity already available.

A new strategy in pricing was seen in the announcement last fortnight of a schedule for an alcohol blend which is unlikely to be available before fall. If lucky, the producer will be able to get its plant on stream before a further cut in competitive alcohols is made.

Ethylhexyl Alcohol—Reduced 3¼c. a pound early last month, 2-ethylhexanol is now priced at 18c. a pound in tankcars, fully competitive with isooctyl alcohol. Prior to the change, however, it had been ¼c. a pound higher. Obviously, the differential had to go in face of greater isooctyl capacity and attendant build-up of selling pressures in plasticizer markets.

Ethylhexanol—and isooctyl alcohol, as well—will be battling a new competitor this fall. This is a hexyl-octyl-decyl alcohol blend which is expected to be available commercially at about that time.

Price on the three-component mixture has been set by the producer, a large integrated oil company, at 18c. a pound. It was announced on May 26—unusually far in advance of production presumably to allay fears that its introduction would be preceded by the posting of an extremely competitive price. Apparently, the producer doesn't want to see the market weaken further before it actually gets on the scene.

A spokesman for the firm notes, in this connection, that lower prices for 2-ethylhexyl and isooctyl were projected before it decided to go into production of the alcohol blend.

Fatty Acids—March production of fatty acids, as classified under categories 1 through 13 by the Commerece department, totaled 46.8 million pounds, up 5.3 million pounds from February, but down 3.1 million pounds from March 1960. Production of saturated fatty acids was 20.3 million pounds, compared with 18.3 million and 22.2 million.

Output of unsaturated fatty acids, including the tall oil types, was 26.5 million pounds, versus 23.2 million pounds in February and 27.7 million pounds in March 1960.

Disposition of all fatty acids amounted to 56.4 million pounds, up 10.1 million from February and up 3.9 million from March a year ago.

Finished goods inventories totaled 54.1 million pounds on March 31, down 4.9 million pounds from the February level. Work-in-progress stocks amounted to 17.6 million pounds, up 0.7 million.

Glycerine — Entering May, glycerine producers held stocks totaling 67.2 million pounds. This figure was 3.7 million pounds (5.8 percent) higher than inventories thirty days earlier and 22.5 million pounds higher than inventories a year earlier.

April production of crude (including synthetic) glycerine was 26.2 million pounds, up 1.6 million pounds (6.5 percent) from March and 800,000 pounds from April 1960.

Output of all grades of refined glycerine in April was 25.6 million pounds, up 9.9 percent from March. Stocks at the end of the month were 37.1 million pounds, up 10.1 million pounds from the March level.

Factory and warehouse stocks (producers) of crude (including synthetic glycerine) were 30.1 million pounds on April 30, up 1 percent from the end of March.

Statistics were released last week by the US Department of Commerce and relayed to OPD by the Glycerine Producers' Association.

Molasses—Markets for feeding cane molasses held steady during the week ended May 23. Demand was seasonally slow and light trading was almost entirely for prompt delivery, Agricultural Marketing Service said.

New Orleans price was unchanged at 14.5c. a gallon. This was considerably higher than the 8.5c. a gallon posted the same date a year ago.

Slower demand, AMS said, was due in part to improved pasture conditions for livestock and in part to the competition of other carbohydrate feeds.

Pentaerythritol — Technical pentaerythritol and mono-PE are now quoted at 29c. a pound in carloads of bags, at 30c. a pound for lesser quantities, delivered anywhere in the US.

Prior to a series of price announce-

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 3, 1960
130.29	130.29	130.46	132.19

For Current Prices See Page 9

Organic Chemicals Output: March

The following figures represent output of specified organic chemicals in February and March, 1961, as reported by the Tariff Commission.

	March	February
Acetic Acid:		
Synthetic	65,791,688	52,581,663
Natural (wood distillation)	2,108,000	1,918,000
Acetic anhydride	89,632,341	70,589,259
Acetone	63,945,365	55,602,380
Acrylonitrile	22,762,045	17,131,118
1,3 Butadiene (Rubber grade)	142,038,332	*127,509,642
Carbon disulfide	45,073,441	41,610,339
Carbon tetrachloride	31,619,199	30,180,662
Ethanolamines (Mono-, di-, and tri)	10,646,567	11,232,858
Ethyl acetate (85 percent)	6,624,086	5,840,914
Ethylene glycol	101,285,534	100,973,385
Formaldehyde (37 percent by weight)	145,532,384	*124,782,307
Methanol:		
Synthetic	164,728,882	154,876,160
Natural (wood distillation)	1,208,480	1,162,000
Pentaerythritol	5,346,904	4,402,069
Perchloroethylene	17,987,550	16,003,215
Propylene glycol	14,039,992	12,691,978
Trichloroethylene	25,554,404	19,225,691

* Revised.

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FOOD & DRUG ADMINISTRATION

In the *Federal Register*, Feb. 10, 1954, the Food & Drug Administration issued a statement of policy, officially recognizing that the need for vitamin B_{12} in human nutrition had been scientifically established.

FOOD & NUTRITION BOARD— NATIONAL RESEARCH COUNCIL

In the 1958 revision of Recommended Dietary Allowances, issued by the Food & Nutrition Board as Publication No. 589 of the National Academy of Sciences—National Research Council, evidence indicating essentiality of vitamin B_{12} is given. It is further stated (p. 23) that deficiency of this vitamin in man has been demonstrated: in pernicious anemia, or after gastrectomy, or associated with bacterial or parasitic interference and a basic defect of the intestines, as found in nontropical sprue. Such deficiencies require parenteral vitamin B_{12}, or huge oral doses. Also: ". . . deficiency due to lack of vitamin B_{12} in the ration has been reported only on vegetable diets . . ."

A.M.A. COUNCIL ON FOODS AND NUTRITION

In J.A.M.A. 169:41-45, Jan. 3, 1959, the Council stated, as regards multivitamin combinations:

"Multiple vitamin preparations should contain only those vitamins shown to be essential in human nutrition or metabolism. . . . The combination of vitamins in a supplementary mixture should have a rational basis. Several combinations meet these criteria.

"1. A combination of all the vitamins that have been demonstrated to be essential in human metabolism may be desirable for supplementation of certain restricted diets. Such preparations would include vitamins A and D, ascorbic acid, thiamine, riboflavin, niacin, pyridoxine, pantothenic acid, folic acid, and vitamin B_{12}.

"2. A combination of vitamins having complementary metabolic functions should prove useful in supplementation of certain restricted diets. These preparations might include (a) a combination of the B vitamins, thiamine, riboflavin, and niacin, with or without pyridoxine, pantothenic acid, folic acid, or vitamin B_{12}; (b) the B vitamins listed under (a) in combination with ascorbic acid . . .

"3. A combination of vitamins that might be expected to be lacking concomitantly because of their common distribution in foods also might be desirable for supplementation. Examples would include the fat-soluble vitamins A and D or vitamins of the B complex as previously noted. . . ."

★ ★ ★

"Recommended Dietary Allowances have not been established for pyridoxine, pantothenic acid, folic acid, or vitamin B_{12}, although all these substances are essential in human metabolism. The amounts present in diets considered adequate in other factors should serve as a guide for quantities to be used in supplementation.

"An abundant dietary provides 2 to 10 mcg. of vitamin B_{12}, 5 to 10 mg. of pantothenic acid, and 1 to 3 mg. of pyridoxine. Therefore, these levels are considered satisfactory in vitamin mixtures for dietary supplementation. Supplemental vitamins administered in the amounts suggested are safe. If the amount of one or more of the vitamins in these mixtures is markedly less than the recommended allowance, the supplemental value of the preparation may be limited accordingly."

NOTE: (1) In the section on "*Vitamins as Therapeutic Agents*," the Council stated that the need for inclusion of more than the 2 to 10 micrograms of B_{12} supplied by an abundant dietary had not yet been demonstrated. (2) In anemia, as the Council stresses, diagnosis of the cause should be the guide to use of the proper hematinic, usually a single factor, and preparations containing all or most of the known antianemic factors are not justifiable.

A.M.A. COUNCIL ON DRUGS— NEW AND NONOFFICIAL DRUGS 1961

The essentiality of vitamin B_{12} is accorded recognition by this A.M.A. Council also, in the 1961 edition of NND, Cyanocobalamin monograph, pp. 796-797.

J.A.M.A. EDITORIALS

Recent editorials in the *Journal of the American Medical Association* likewise recognize the essentiality of vitamin B_{12} for human nutrition: (1) *The Function of Vitamin B_{12} in Metabolism*, *J.A.M.A.* 172:1938, April 23, 1960. (2) *Vitamins, Minerals, and Anemia*, *J.A.M.A.* 175:1000, March 18, 1961.

GOODMAN AND GILMAN: THE PHARMACOLOGICAL BASIS OF THERAPEUTICS

Chapter 63 of this standard treatise (ed. 2, 1955, New York, Macmillan) discusses at considerable length outstanding roles of B_{12} as an essential metabolite, not only in red cell formation but also in maintaining the integrity of the human nervous system as well as oral and gastric epithelial cells.

U. S. DEPARTMENT OF AGRICULTURE CONSULTANTS

Repeated allusion to the essentiality of vitamin B_{12} in human nutrition is made by collaborating authorities who wrote *Food—The Yearbook of Agriculture 1959*. Prominent among the authors is Dr. Grace A. Goldsmith, Professor of Medicine, Tulane University School of Medicine; Chairman, Food & Nutrition Board (NAS-NRC), and member of the A.M.A. Council on Foods & Nutrition . . . who notes the vital human need for B_{12} but states that the dietary requirement is unknown and that the biological availability of this vitamin in the diet is also unknown (p. 148) . . .

OTHER AUTHORITIES TODAY

In *Drugs of Choice 1960-1961* (Mosby, 1960), pp. 115-116, Bean points to the acceptance of B_{12} not only as the extrinsic factor of Castle but also as the red-cell-maturing factor found in liver . . . William B. Castle enlarges on the essentiality of B_{12}, in the 10th edition (1959) of the monumental *Textbook of Medicine*, p. 1130 (Cecil and Loeb, editors) . . . In Conn's *Current Therapy 1961*, p. 312, Shils recommends B_{12} inclusion in multivitamins for general nutritional deficiency . . .

Scan treatises on hematology, neurology, gastro-enterology, nutrition, ophthalmology—or the many hundreds of recent authoritative reports and reviews involving B_{12} . . . and nowhere in this massive literature will you find any question of the universally recognized scientific fact: VITAMIN B_{12}—ESSENTIAL FOR HUMAN NUTRITION . . . a vital requirement through every stage of life.

Aliphatic Organics

ments which started to come in on May 18, in the wake of the reduction in glycerine, west coast prices had been 1c. higher than those in the east. (The differential, a traditional pricing feature in the organic chemicals business, is designed to defray freight costs.)

With a lower-priced product and additional freight charges to western markets in store for them, east coast PE producers are understandably concerned about profits. These are going to sink, of course, without a compensating upturn in sales. And this is not likely, if production is any indication.

Output for the first quarter of 1961 was 15.2 million pounds, as opposed to 16.9 in the comparable period last year. Furthermore, production did not continue upward in 1960; in fact, it was ever so slightly below the '59 figure, which was an all-time high.

Sucrose—Quote on refined white sucrose was boosted 15c., to $9.55 per hundredweight, f.o.b. eastern refinery, effective with the close of business on May 26.

In effect, the advance merely reinstated the schedule that had been quoted until April 11. At that time, extremely competitive conditions prompted a major refiner to cut the price in the hope that this would stabilize a then weakening market.

Cancer Weapon

—Continued from page 5

chemical is a complicated month-long process and relatively expensive, according to Dr. Schram. For example, one of the starting materials costs $200 a gram.

So far, the largest amount recovered in crystal form from one operation has been one and one-half milligrams, or about one-thousandth of starting material.

This is said to be more than sufficient for research purposes because of microtechnics perfected at the Dallas VA Hospital. With an infra-red spectrophotometer, Dr. Schram says, a complete analysis can be obtained from five-millionths of a gram.

Traces of cytolipin H can be detected in normal tissues—about 500 pounds of beef spleen will yield about one gram—but it is the high concentration in cancer cells that has excited the VA investigators.

'Ethion' Is Used in South Against Chinch Infestation

Following acceptance by the Department of Agriculture, the pesticide "Ethion" has been incorporated by eleven formulators to meet a serious rise in the south's problem of chinch bugs on lawns.

Reporting this development, Food Machinery & Chemical Corporation's Niagara Chemical Division notes that "Ethion" has shown particularly effective control of the pests on St. Augustine grass, which is grown extensively in the south.

In one trial conducted at Daytona Beach, Fla., 97 percent control of chinch bugs was measured four weeks after application, and 91 percent after six weeks, the company reports.

Oronite Opens Terminal For Bulk Acetone Storage

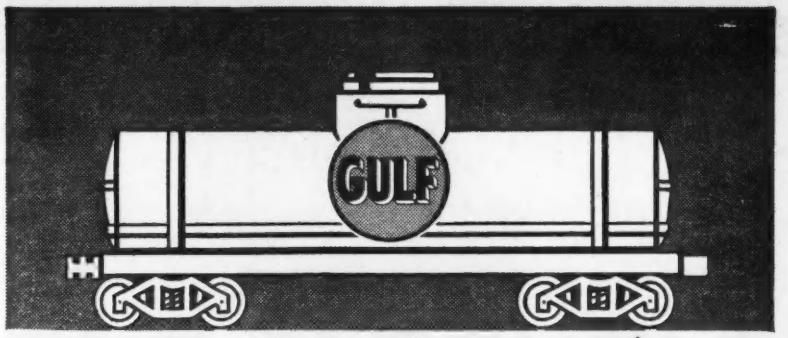
Oronite Division of California Chemical Company, a subsidiary of Standard Oil Company of California, has opened a new bulk storage terminal in Chicago to distribute acetone.

The new terminal—Oronite's fourth acetone bulk storage facility in the country—will provide the midwest area with one day service on tankcar and tankwagon deliveries, the company reports. The chemical is manufactured at Oronite's acetone-phenol plant in Richmond, Calif.

Butyl-Lithium Plant

—Continued from page 7

synthetic stereo-specific polymers such as synthetic "Hevea" (polyisoprene) and polybutadiene. Polyisoprene is the new synthetic rubber that has all the desirable properties formerly possible only with the natural type. Butyl lithium and other organic lithium compounds are being extensively investigated by the rubber, pharmaceutical and petroleum industries. Possible uses: intermediates in organic reactions and catalysts in the manufacture of stereospecific polymers in addition to polyisoprene.



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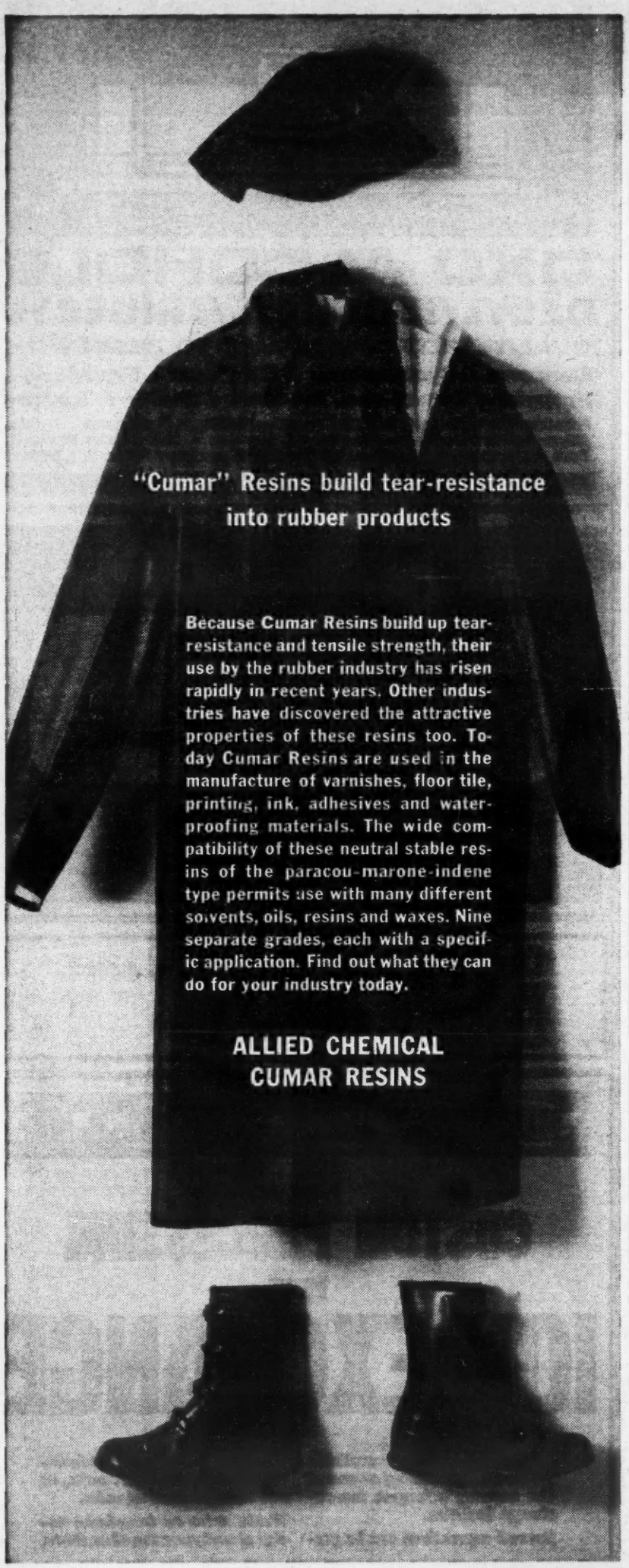
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Coal Chemicals

One supplier has raised ADF cresylic acid bulk price 5 cents a gallon and drum prices in carloads by 12½ cents. New schedule, effective June 1 is: Tankcars or tanktrucks, works, freight equalized with competitive points, $1 a gallon; drums, carloads or truckloads, f.o.b. works, $1.15 a gallon and less than truckload or carload amounts, same basis, $1.20 a gallon. Although bulk price has long been listed at $1, trade observers tended to believe the actual price was somewhat lower. This opinion was confirmed by the June 1 increase which boosted bulk prices 5 cents to an official $1 level from the actual selling price of 95 cents. Other major suppliers have not as yet committed themselves but trade opinion is strong that tne increase will become industry-wide.

Reason for the increase is given as the rising costs of crude tar in Europe. Material is reported extremely scarce on the continent with buyers bidding up the market when good crude tar is available. This is naturally reflected in the costs of ADF cresylic acid to US importers.

When queried about the possibility of an increase in the price of domestic cresylic acid, trade sources parried by commenting that at present there is no scarcity of material. However, should business accelerate and demand rise, sources point out, there is a good chance a short supply situation may come about which would set the scene for a price hike.

For one thing, sources say, petroleum crudes for cresylic acid have been declining steadily in recent years. As the US was the first to produce cresylic from petroleum, much of the industry's equipment is old and not able to maintain profitable margins. Quite often, too, new refining facilities coming on stream do not have provisions for the production of cresylic acid, the refiners preferring instead to concentrate on higher-volume or more profitable petrochemicals.

Cokeoven supply of cresylic is also diminishing. The amount of cresylic supply does not rise in proportion to increased steel and coking rates meaning that as industrial activity advances, cresylic output does not keep pace. Should the economy take off for higher ground, trade sources indicate, a short supply situation will be created in which higher prices would be the next step.

Price Trends

Advanced
None
Reduced
None
Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	June 3, 1960
117.63	117.63	117.63	118.40

For Current Prices See Page 9

Basic Products

Benzene — Cokeoven producers report that the market is adequate supplied in general.

Contract customers are obtaining their stipulated amounts and, in fact, are making attempts to oversubscribe. In most cases surplus material is available at contract price.

Premium prices for spot material no longer exist according to trade sources.

While difficulty may be encountered in obtaining amounts of one-half million gallons plus, lower volume shipments can be bought without undue effort.

Demand continues strong. Styrene and phenol makers are reported as taking heavy volume. Increased auto rate and, surprisingly, heavy replacement tire sales despite record stocks, are buoying styrene usage and consequently benzene demand.

Benzene output soared to 40,657,298 gallons in March, the highest total lons, highest in over a year and up approximately 1.5 million gallons from February.

Tar distillers—917,560 gallons, up approximately 81,000 gallons from February.

Total output for the first quarter was 119,399,595 gallons, up 2.2 million gallons over the same period last year. achieved since May of last year when 41.2 million gallons were turned out.

By source, March production came from—

Coke oven operators—8,724,142 gallons, highest since August of last year and up approximately .6 million gallons from February.

Petroleum processors—31,015,596 gal-

Coaltar Pitch—Although current market conditions are reported as slightly depressed, market sources are expressing confidence that the immediate future holds promise of sharp improvement.

For one thing, sources indicate, consumer inventory practice appears to be reverting to the normal 35 to 40 days' supply.

During the recession, general industry practice was to maintain a bare 15 days' supply.

Reduction of inventory by consumers resulted in a hand-to-mouth buying policy which created hardships for producers. In effect, producers were forced to carry consumers' stocks for them, a widespread tactic in all industry during the economic slowdown.

Producers' stocks were thus much higher than normal in order to supply rush orders from consumers who maintained only the slimmest stocks. As much of the pitch business is to specification, the variety of stocks carried by producers had, of necessity, to be extensive.

Now, producers say, inventory policy is returning to a normal pattern, albeit slowly.

In particular, producers note an increase in orders for aluminum and core pitch.

Naphthalene—Still in short supply, the market is easing up marginally according to reports.

O-xylene continues to find favor with phthalic makers unable to obtain sufficient naphthalene. According to some reports one o-xylene supplier is guaranteeing that the price for o-xylene will not rise above that of naphthalene. Direct

Aromatic Chemical Output: March

Figures for benzene, xylene and toluene include cokeoven operators, tar distillers and petroleum operators. Creosote oil statistics include distillate as such, and creosote content of solution, on 100%-creosote basis.

	March 1961	March 1960	First Three Months 1961	First Three Months 1960
Aniline ....lbs.	10,851,537	12,366,900	31,247,515	33,606,839
Benzene ....gals.	40,657,298	47,483,300	119,399,595	117,221,002
Creosote, dead oil ....gals.	6,976,594	8,344,496	18,715,613	22,409,601
Cresols, m-p and o-m-p fractions ....lbs.	3,815,114	4,461,972	10,773,339	12,402,186
Cresylic acid, refined all sources ....lbs.	7,321,846	4,323,011	17,841,064	13,763,542
Dodecylbenzene ....lbs.	35,343,575	43,534,718	104,730,994	123,727,671
Monochlorobenzene ....lbs.	41,132,495	53,034,235	115,754,067	159,057,030
Naphthalene, crude ....lbs.	37,475,136	49,259,674	96,238,788	139,073,467
Phenol, tech and USP ....lbs.	60,949,700	67,213,934	182,604,690*	198,267,725
Phthalic anhydride ....lbs.	30,993,540	36,549,718	82,529,581	97,099,859
Pyridine, refined 2° ....lbs.	201,756	291,555	626,574	577,586
Styrene monomer ....lbs.	140,739,952	150,873,347	385,179,284	431,925,154
Toluene ....gals.	20,113,777	22,700,975	67,951,037	62,051,902
Xylene ....gals.	29,535,171	29,370,554	85,745,260	68,818,508

Source: Tariff Commission.
* Revised.

Coal Chemicals

confirmation by the supplier has not yet been given to OPD inquiries concerning this development, however.

Pentachlorophenol—Ceylon is seeking bids on 200,000 pounds of emulsifiable PCP.

Bids should be addressed to: The Chairman, Tender Board, Ministry of Agriculture, Land, Irrigation, and Power, Galle Face Secretariat, P.O. Box 500, Colombo 1, Ceylon. Deadline is 2:30 p.m., July 5.

Copies of terms and specifications may be obtained from the Trade Development division, Bureau of Foreign Commerce, US Dept. of Commerce, Wash., 25, D.C.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ended May 27, were as follows:

Ammonia liquor	lbs.	621,492
Ammonium sulfate	lbs.	00,000,000
Benzene	gals.	2,849,486
Coaltar	gals.	14,376,439
Crude chemical oil	gals.	562,861
Solvent naphtha	gals.	93,810
Toluene	gals.	633,219
Xylene	gals.	175,894

Chemical Future

—Continued from page 5

machinery antitrust case, reforming conditions in the professional sports area, and trying to decide when to get back to the drug industry, that he has given no thought to again battling his pre-merger notification bill through a reluctant senate judiciary committee.

His other major bill that concerns the chemical industry, S 11 to limit the "'good faith" clause as a defense in price discrimination cases, is dead for all intents and purposes. The senator introduced it early in the session but more for record purposes than anything else. He has no plans, at this time, of seeking action on it.

The civil demand bill is given a good chance of being enacted into law. It will be given a push at senate antitrust committee hearings set for Wednesday (June 7) by Paul Rand Dixon, chairman of the Federal Trade Commission and former counsel for the Kefauver committee, and by Lee Loevinger, assistant Attorney General for antitrust.

This bill passed the senate with no trouble at all last session, but failed to make progress in the house because of the crowded judiciary committee calendar. Mr. Kefauver has been given assurances that an effort will be made to get it to the house floor this year, and passed, if not this year then next year.

One other bill in the antitrust field being watched by the chemical industry is the Patman measure implementing the recent executive order of President Kennedy on identical bidding. The bill provides for publicizing instances of identical bidding on purchases of public agencies—both federal and state.

A subcommittee of the house government operations committee has completed hearings on the measure and is now considering certain technical and clarifying amendments offered by the Justice Department. This bill is expected to be reported and passed this year.

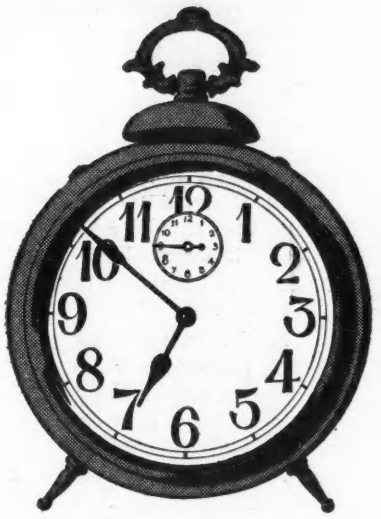
Tung Oil Supply

—Continued from page 5

duction, carryover stocks at the beginning of the season of 37 million pounds and the 26 million pounds of imports that have come in this year under the 1960-61 import quota.

Domestic use of tung oil is expected to total about 43 million pounds, approximately the same as the 1959 level and about average for recent years. This will leave roughly 33 million pounds available for export or carryover when the new marketing year begins next October.

The department expects tung oil prices for the remainder of the current marketing year to continue firm and average above last year's level of 22.8 cents a pound. Consumers of tung oil probably will continue to operate on a short term basis, it adds, and any further sharp increase in tung oil prices will encourage the drying oil trade to shift to lower-priced substitutes.



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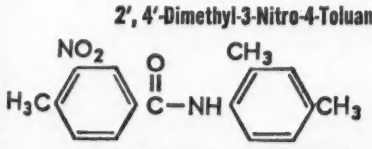
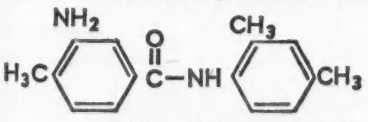


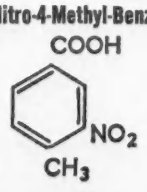
(A white to light tan powder; soluble in acetone; insoluble in water, alcohol and benzene.)

2', 4'-Dimethyl-3-Amino-4-Toluanilide



(A light pink to red powder; soluble in acetone, alcohol, benzene and acid; insoluble in water.)

3-Nitro-4-Methyl-Benzoic Acid



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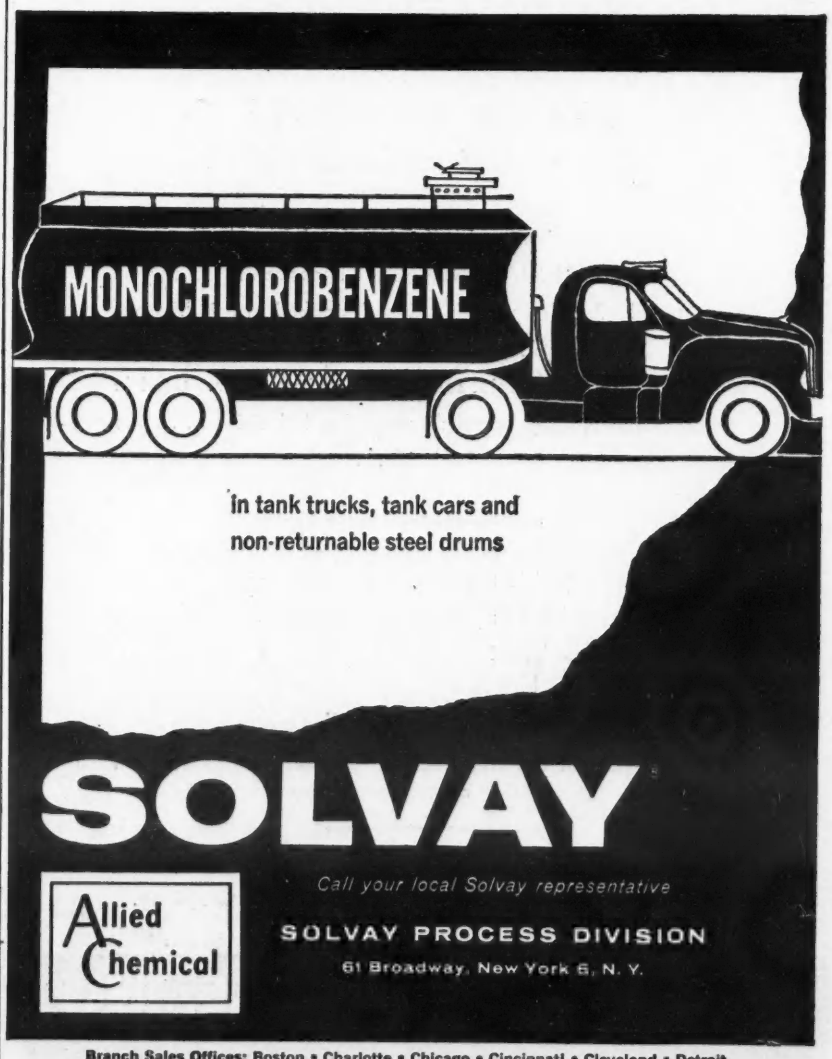

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Brucine prices have gone lower and today's schedule—$1.10 an ounce for the alkaloid, 85 cents an ounce for the sulfate salt—is approximately 50 percent lower than that quoted this time last year. The decline is related, reportedly, to the freer supply, low-price distress lot selling, and the recent introduction in the US market of a European-manufactured synthetic alcohol-denaturant. Trade-named "Bitrex," the new product has already met with general acceptance; however, the big push is not yet on, according to the domestic sales agent.

Greater interest in "Bitrex" is asticipated, though, as soon as alcohol producers' stocks are near depletion—they're understood to be quite large currently—and once customers get used to the idea of a synthetic denaturant. For the time being, some alcohol producers are offering brucine, quassin, and "Bitrex" denatured products.

Requirements for atropine alkaloid and extremely limited—so too, dealers stocks—but the sulfate remains a fairly active item, at prices ranging from $4.75 an ounce for 100 ounces to $5.75 for a minimum order.

Hyoscine (scopalamine) is also in good demand—for export primarily—and prices remain high. The methylbromide lists at $17.55 an ounce in 25-ounce lots, the hydrobromide at $13.50 an ounce in 10-ounce lots. General Services Administration's upcoming sale of some 1800 ounces is not expected to weaken the market.

N-Acetyl-p-Aminophenol—Current buying interest is good and although there are no new applications to spark demand, a slow, steady increase in usage is anticipated. This growth potential could occasion some new entrants in the market, it's understood.

APAP prices are firm at levels established early this year. Manufacturers are quoting truckloads (23,000 pounds) at $1.30 a pound; 5,000 pounds at $1.36; 1,000 pounds at $1.40; 250 pounds at $1.48; 100 pounds at $1.54; and 50 pounds at $1.63.

Prior to the setting up of this schedule, certain major producers of the chemical did not quote a truckload price. In fact, their best price was $1.45 a pound before they realigned quotations to meet those of a fairly new competitor.

Atropine—There's very little domestic interest in atropine alkaloid these days, but requirements for the sulfate salt are routine. The latter is reported to be selling at about $4.75 an ounce for 100 ounces, at $5.25 an ounce for 10-ounce lots.

Alkaloid stocks are understandably low, a supplier here reports. Adequate sulfate is available.

Brucine — Brucine prices have gone progressively lower within the past several months and one of the factors that accelerated the decline was the introduction of a synthetic alcohol denaturant called "Bitrex."

"Bitrex," according to a spokesman for the sole US sales representative of the European-manufactured product, is beginning to catch on. Especially active interest has been noted in recent weeks, due, reportedly, to the gradual depletion of alcohol makers' brucine stocks. Big demand, however, is yet to come.

Brucine sulfate is selling at about 85c. an ounce, the alkaloid at $1.10, trade reports indicate. These prices are approximately 50 percent lower than those quoted this time last year.

Hyoscyamine—Demand for both the hydrobromide and sulfate salts of hyoscyamine is routinely active, supply adequate. The static situation is mirrored in prices, which have not changed since the end of 1960 when advances amounting to 75c. an ounce were posted. Current range on both salts is $7.75 to $8.50 an ounce.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 3, 1960
59.27	59.27	59.29	60.25

For Current Prices See Page 9

Scopalamine — Prices remain very strong. Quote on the hydrobromide is $13.50 an ounce in 10-ounce lots, reportedly. Still higher, the methylbromide is listed at $17.55 an ounce in 25-ounce lots, at $17.60 an ounce for 10 ounces.

General Services Administration sold 1,070 ounces of hyoscine (scopalamine), once held in the nation's stockpile, at $11 an ounce last February. The agency is now planning a further sale of approximately 1,800 ounces.

Because stocks here are limited and because the purchase price of this material will probably be in the vicinity of $11 an ounce, GSA's sale is unlikely to have repercussions in the domestic market.

Tricholine Citrate—OPD has revised its listing on tricholine citrate to reflect a kilo rather a pound basis. (Changeover to the metric system, begun in earnest in the latter part of 1957 by major drug and fine chemical concerns, is proceeding, though slowly).

Quote on tricholine citrate is $3.10 a kilo for a 65 percent solution, packed in drums (non-returnable), freight equalized.

Vitamin B_{12}—Bureau of Customs is planning to reclassify vitamin B_{12} as a coaltar derivative, dutiable at the rate of 3½ cents a pound and 25 percent ad valorem. This, in effect, will sharply increase the import duty, which is now figured at 10½ percent ad valorem.

Customs will accept comments—in writing—on the proposed reclassification until June 23.

The leading US producer of the vitamin initiated the "reclassification" appeal several months ago. In the interim, it has posted lower prices and begun law suits charging firms and individuals with infringing its B_{12} patent rights. Net result: an appreciably firmer market.

Least buyers become alarmed, one should point out here that maintenance of current, low prices on the vitamin is highly likely.

Botanicals

Agar-Agar—General Services Administration is trying to unload 20,630 pounds of agar-agar. The material is in storage at the Army Depot in Pueblo, Colo.

In an initial offering, GSA received bids on only six of eleven separate lots. For a total of 7,000 pounds, a west coast firm made bids ranging from 60 to 82c. a pound.

Gum Arabic—Although gum arabic imports in 1960 were 8 percent smaller than

—Continued on page 10

Drugs and Fine Chemicals Output: March

Following statistics for selected fine chemicals and drugs were compiled by the Tariff Commission. Figures relate to the production of bulk material only.

		March	February
Acetylsalicyclic acid	lbs.	1,555,276	1,718,363
Ascorbic acid and salts	lbs.	615,119	402,208*
Dihydrostreptomycin	gms.	20,567,868	10,138,047
Niacin and amide	lbs.	165,199	193,062*
Penicillin salts	million-units	64,002,143	42,537,467*
Phenobarbital	lbs.	—	—
Pyridoxine	lbs.	10,224	4,201
Streptomycin	gms.	23,607,224	31,221,407
Sulfa drugs	lbs.	311,832	417,014
Tetracycline	gms.	17,612,400	12,606,660
Thiamin derivatives	lbs.	34,676	29,931*

* Revised.
A dash (—) indicates data not reported.

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*Terry, G.; *Texas State J. Med.* 53:829 (Nov.) 1957. *J. of Amer. Dietetic Assoc.* 30:1002 (Oct.) 1954. Laughlin, E. H.; Joseph, A. A., and Alcindor, L.: *Antibiotics Annual* 1957-58, p. 99. Albanese, A. A.; Higgons, R. A.; Orto, L. A., and Zavattaro, D. N.: *Geriatrics* 12:465 (Aug.) 1957.

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Drugs, Fine Chemicals

—Continued from page 48

those of '59, they were the second highest in the 1950-'60 decade. Arrivals in the last five years were (million pounds): 1960, 21.5; 1959, 23.4; 1958, 20.4; 1957, 19.2; and 1956, 18.7.

Eight countries supplied the US market last year but the bulk came from the Sudan—21.3 million pounds. Average per pound declared value was 19.2c. a pound, as opposed to 16.6c. in 1959.

Sudanese collections were reported at 43,400 metric tons during the 1959-60 season (the season begins in November and ends the following October). The total approached the 1954-55 record of 45,000 tons and was the second largest within the period 1947-'48 to 1959-'60.

Drug & Fine Chemical Briefs

LEDERLE ANTI-OBESITY DRUG: A sustained release capsule that combines the appetite-depressant action of dextroamphetamine sulfate and the tranquilizing effect of meprobamate is now being marketed by Lederle Laboratories Division, American Cyanamid Company. Trade-named "Bamadex Sequels," the capsules are priced to the retailer at $3 in bottles of 30.

NEW CORTICOSTEROID: A new corticosteroid cream, which is reported to have forty times the topical potency of hydrocortisone in the treatment of chronic eczema and other skin disorders, has been introduced in the US by Syntex Laboratories, Inc. Called "Synalar," it is designated chemically as 6 alpha, 9 alpha-difluoro-16 alpha-hydroxy-prednisolone-16, 17-acetonide.

PFIZER GRANTS: Grants exceeding $1 million were made for scientific research and medical education last year by Chas. Pfizer & Co. and the Pfizer Foundation. The company also contributed approximately $200,000 to MEDICO: $100,000 worth of vitamins and antibiotics to aid earthquake victims in Agadir, Morocco; and a $50,000 drug consignment to Project Hope.

Water Pollution Control

—Continued from page 4

vides for appropriations of $100 million annually.

The senate committee, however, doubted whether a flat annual sum was the best way to meet the problem and voted to set up a sliding scale of authorizations under which the first year's limit is fixed at $70 million, the second year $80 million, the third year $90 million, and the fourth and fifth years $100 million each.

Provisions in the Blatnik bill for enforcement of the program by administrative orders of the secretary were not included in the Kerr bill. The latter leaves enforcement of the secretary's orders in the hands of the courts as provided for in existing law.

The house-approved Blatnik bill follows more closely along the lines of recommendations made for the administration by Secretary Abraham Ribicoff of the Department of Health, Education & Welfare. It is reported, however, that the administration has no objections to the Kerr bill and will accept either of the two measures that congress sends to the White House.

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Petroleum Derivatives

Up went production of aromatics in the first quarter when compared with the same period in 1960. This was achieved despite the fact that the first quarter was marked by the nadir of the recession while last year in the first quarter industrial activity attained a frenzied pace following the steel strike settlement. Benzene output in the first quarter was up 1.9 percent over 1960.

That margin is expected to widen by the end of the year as new facilities come on stream. Toluene scored a 9.5 percent increase in the first quarter. Benzene conversion units may have accounted for a good share of the gain. Most notable increase in the aromatics came in xylene which ran up a 23.5 percent advance over the first quarter last year. From 68.8 million gallons, xylene production climbed to 85.4 million gallons. Held accountable for the gain is the heavy demand for the ortho fraction on the basis of the naphthalene shortage.

In the current market, benzene supply is considered adequate for requirements. Most new plants due on stream this year have already contracted to sell their material. Typical deal involved a recent 27 million gallon-a-year sale by a producer whose plant is not yet on stream to German interests at a price below 30 cents a gallon. Toluene is moving into export channels in good volume. Xylene activity remains centered in ortho. Reportedly one o-xylene supplier is guaranteeing that the price of ortho will not rise above that of naphthalene. Upon direct inquiry to the supplier no confirmation of this arrangement can be obtained, however.

Demand for liquefied gases for fuel and chemical use decreased 28 percent in March from the same month a year ago, reports Bureau of Mines.

Up went crude oil production in the week ended May 19 while crude runs decreased. So says API based on reports from the industry.

Daily average crude production, including lease condensate, was 7,061,000 b.p.d, an increase of 48,000 bbls. from the preceding week.

Daily average crude runs to stills of 7,893,000 b.p.d. were 13,000 bbls. above the preceding week.

Runs of foreign crude amounted to 925,000 b.p.d., compared with 911,000 b.p.d. during the preceding week.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	June 3, 1960
104.11	104.11	104.11	103.82

For Current Prices See Page 9

Aromatic Solvents

Benzene—Demand and production continue to gain according to trade reports.

Sharp turnabout in styrene production—March production shot up 18 million pounds plus over February—as well as other gains in such benzene derivatives as phenol, monochlorobenzene and dodecylbenzene have intensified demand for benzene.

Production is just managing to adequately supply the market.

Contract customers are taking their full amounts without difficulty, and in some cases are attempting to oversubscribe their stipulated volume. In general they're successful in obtaining surplus amounts.

Spot material is available at contract price but in limited amounts.

New production is expected to swell capacity figures before the year is out. Most new plant supply is already contracted for, it's believed. One plant, not yet built, has already sold nearly its entire production, estimated at 27 million gallons, to German interests.

Climbing 2.1 million gallons over February's output, production of benzene from all sources in March hit 40,657,298 gallons.

This represents the highest production since May of last year when 41.2 million gallons were turned out.

By source, March production came from—

Petroleum processors—31,015,596 gallons, highest in over a year and up approximately 1.5 million gallons from February.

Coke oven operators—8,724,142 gallons, highest since August of last year and up approximately .6 million gallons from February.

Tar distillers—917,560 gallons, up approximately 81,000 gallons from February.

Total output for the first quarter was 119,399,595 gallons, up 2.2 million gallons over the same period last year.

Broken down by source, production for the first quarter came from—

Petroleum processors—91,350,305 gallons, or approximately 77 percent of the total.

Coke oven operators—25,127,534 gallons, or approximately 21 percent of the total.

Tar distillers—2,651,756 gallons, or approximately 2 percent of the total.

Toluene—Production declined 3.9 million gallons in March to an output of 20,113,777 gallons.

By source production originated as follows—

Petroleum processors—17,779,018 gallons, down 3.9 million gallons from February.

Coke oven operators—2,055,250 gallons, down 60,000 gallons from February.

Tar distillers—279,509 gallons, up 72,000 gallons from February.

First quarter production of toluene totaled 68 million gallons, up 6 million from the same period in 1960.

Xylene—Production in March went up 2.7 million gallons to a total of 29,535,171 gallons.

By source production originated with—

Petroleum processors and tar distillers—28,886,314 gallons, up 2.6 million gallons from February.

Cokeoven operators, up 100,000 gallons from February.

Total output for the first quarter was 85.3 million gallons, up 16.5 million gallons from the same period last year.

Aliphatic Solvents

Heptane—Domestic market is running rather quiet, producers report.

Solvent applications remain limited.

While supply is on the long side, demand remains fairly restricted to needs while prices are stable at longstanding levels.

Heptane producers are not content with the current situation but see little chance of a marked improvement over the near term.

Waxes

US exports of waxes were 29 percent greater in 1960 than in 1959. So reports *Chemical and Rubber*, a publication of the Department of Commerce.

Paraffin wax exports climbed 35 percent and microcrystalline 8 percent, while vegetable wax exports dropped 18 percent.

Total microcrystalline wax exports hit 65 million pounds in 1960 as against 60 million the year before for a gain of 8.4 percent.

Total paraffin wax exports were 308.4 million pounds, a gain of 34.8 percent.

Fully refined crystalline paraffin exports totaled 133.4 million pounds, an increase of 49.9 percent over 1959.

Crystalline exports, except fully refined, totaled 175 million pounds, an increase of 25.2 percent.

Crude Oil Stocks Climb

Domestic and foreign crude petroleum stocks at the close of the week ended May 20 were 4,403,000 bbls. higher than at the end of the preceding week.

Week ended May 20—258,343,000 bbls.

Preceding week—253,940,000 bbls.

This increase comprises an increase of 1,902,000 bbls, in stocks of domestic crude and an increase of 2,501,000 bbls. of foreign crude.

(Source: Bureau of Mines)

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Essential Oils, Aromatics

Lemon oil prices are moving upward with some dealers well stocked and others "clean out." Oil may be bought for prices ranging between $2.45 and $2.65 per pound. It has been speculated that more oil will be available within the next month or two. Geranium Bourbon dropped $2 per pound and Algerian, also weak, remained at its previous listing. Methyl anthranilate dropped 5 cents per pound.

Few price changes were reported among the seeds but some effort is being made to bring about a stabilization of the pepper market. This is explained under Pepper.

This material is a light-colored, free-flowing, crystalline powder containing 50 percent banana solids and 50 percent malto-dextrose with moisture less than 0.8 percent. In water it reconstitutes to 80 percent banana solids and 20 percent corn syrup solids. Fresh bananas have only 25 percent solids and 75 percent water.

Advantages of crystals prepared by vacuum dehydration are increased flavor retention and more rapid solubility in cold water. The powder is recommended for prepared dessert mixes, icings, cakes, and dairy-based beverages.

The following statistics about flowers are made available by The Netherlands Chamber of Commerce in the United States, Inc.

A few miles outside of Amsterdam is the village of Aalsmeer which has over 1,000 nurseries and 350 acres of glass houses which produce millions of flowers of all types throughout the year.

While some of these flowers are not noted for their essential oils, several are. Holland is said to be a leader in the production of oils of jonquil, hyacinth, and chamomile.

It has been estimated that the following number of flowers are sold at auction each year at Aalsmeer: 35,000,000 carnations, 14,000,000 sweet peas, 50,000,000 roses, 25,000,000 tulips and daffodils, 5,000,000 chrysanthemums, 3,000,000 freesias and 10,000,000 sprays of lilac.

Price Trends

Advanced

Lemon, 65c. per lb.

Reduced

Methyl anthranilate, 5c. per lb.
Geranium, Bourbon, $2 per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 3, 1960
143.55	143.80	143.81	145.45

For Current Prices See Page 9

Essential Oils

Geranium — Bourbon material has dropped in price from $19 per pound to $17 per pound. Algerian material remains at $19 per pound.

Very little, if any, commercial quantities of material from Kenya is sold in the US, but, according to Chemical and Rubber, a publication of the US Department of Commerce, Business and Defense Services Administration, this source may prove to be a substantial one.

According to the Essential Oil Section of Tropical Institute, London, geranium oil from Kenya has come to be considered of the highest quality. This opinion has reportedly been confirmed by one of the largest users of geranium oil in the United Kingdom.

The report went on to say that the sustained high price of geranium oil in recent years aroused considerable interest among Kenya farmers. However, the traders had been interested only in supplies closely resembling the Bourbon variety found in Reunion in the Indian Ocean.

On the Tropical Institute's recommendation, cuttings of the Bourbon variety were obtained from Reunion in exchange for tea seed, and they were propagated by the Department of Agriculture in Kenya.

It was reported that rapid progress has been achieved in the two years since the Institute in London received the first sample of oil distilled from these plants, and a sample received from Kenya early in 1960 was found to be satisfactory.

This crop should prove worthwhile for both African and European planters, as it is one of the best paying for agriculturists unable to grow coffee.

The highlands of Kenya are said to be eminently suitable for the cultivation of geranium plants.

Lemon—Price advances were made once again last week, but once again, they don't mean much.

Dealers who are now quoting a $2.45 per pound price still say they have virtually no material.

Dealers who are now quoting from $2.50 to $2.65, claim to have ample stocks.

Some industry spokesmen predict that more material will become available within a month or so.

Aromatic Chemicals

Methyl Anthranilate — This aromatic which is used extensively in all types of grape flavors, is now selling for prices ranging between $2.20 and $2.70 per pound. The previous listing had been between $2.25 and $2.45 per pound.

This chemical is found in juices such as grape; oils of neroli, petitgrain, jasmin, tuberose, gardenia, jonquil, orange flower, ylang ylang; and in such citrus oils as orange, lemon, bergamot and mandarin.

Vanillin—The Takasaku Perfume Co., Ltd., in Japan has started up a plant for the production of vanillin and heliotropin. Capacity is 50 metric tons a year of vanillin.

The plant uses a unique process, namely oxidation with ozone.

Heliotropin—At the Takasaku Perfume Co., Ltd., 110 metric tons a year of heliotropin is produced. This plant went on stream at the end of last year.

Seeds and Spices

Pepper—Hoping to establish some sort of price stabilization of the prices of pepper, the United Nations' Economic Commission for Asia and the Far East recently sponsored exploratory talks in Bangkok. Countries participating were Cambodia, India, Indonesia and Sarawak. The conference was an outgrowth of an earlier discussion of inter-regional trade and does not have the magnitude of a major United Nations commodity study group.

Singapore attracts most of the output

—Continued on page 54

U.S. Production of Flavor and Perfume Materials: 1960

The following figures are for the terpenoid, heterocyclic and alicyclic group. Information is compiled by the Chemical Division, United States Tariff Commission. Figures are in terms of pounds and dollars.

	Production	Sales Quantity	Sales Value
Citral	84,000	81,000	$269,000
Citronellol	508,000	337,000	574,000
Coumarin	672,000	697,000	1,927,000
Geraniol	457,000	235,000	326,000
Geranyl acetate	49,000	34,000	60,000
Hydroxycitronellal	286,000	219,000	883,000
Ionones, total	329,000	278,000	1,016,000
a—ionone	44,000	17,000	86,000
b—ionone	198,000	170,000	623,000
Isobornyl acetate	709,000	668,000	282,000
Linalool	260,000	202,000	546,000
Linolyl acetate	262,000	183,000	483,000
Nerol	19,000	11,000	75,000
Piperonal	276,000	225,000	550,000
Rhodinol	14,000	11,000	525,000
Terpineols	3,144,000	2,844,000	746,000
Terpinyl acetate	560,000	599,000	269,000
Ethyl butyrate	167,000	188,000	125,000

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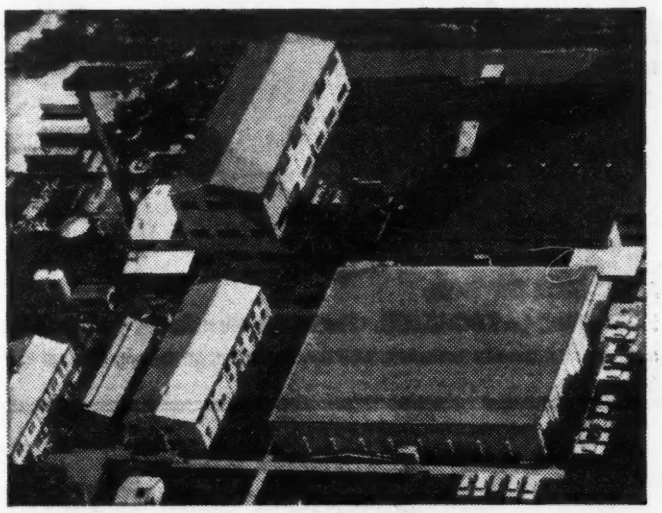
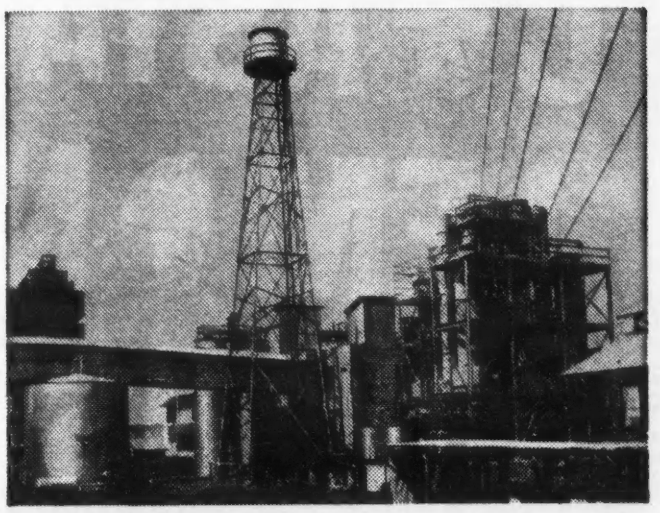


Florida SUN-FILLED citrus oils are produced at 3 Minute Maid plants — Plymouth (shown above), Auburndale and Leesburg, Florida.



California SUN-FILLED citrus oils are produced at Minute Maid's Golden Citrus plant at Anaheim, California.

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All SUN-FILLED citrus essential oils are guaranteed 100% pure. You can use them with complete assurance because they're produced and packed under continuous U.S.D.A. inspection... completely protected against adulteration and sophistication by tamper-proof seals.

What's more, with SUN-FILLED citrus essential oils you're assured of highest quality. Minute Maid's strict quality control assures constant uniformity, batch after batch. When you buy SUN-FILLED you buy the very best! And you're always sure of ample, dependable supply from Minute Maid—America's largest producer of citrus products.

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Essential Oils

—*Continued from page 52*

of the surrounding producing areas, giving its merchants the opportunity to exploit pepper, which is quite susceptible to price manipulation. In the light of this, a fixed price could mean the end of trading there. It has been suggested, however, that no such vigorous policy is even contemplated.

It has been pointed out that the primary influence on price is production in view of the fact that consumption has not risen in proportion to the world's rising standard of living. (This is only one view of one British economist and is not shared by dealers in pepper here in the US who claim that consumption has risen considerably during the last few years.)

A real factor, generally agreed upon, however, is the growth of production in Brazil. Since Brazil's entrance into the world market just two years ago, their production has reached approximately 6,000 tons. World consumption is currently estimated to be some 60,000 tons of black and white.

Pesticides: Egypt

—*Continued from page 7*

has been operating at only about half this rate, owing to insufficient supplies of chlorine.

This situation is expected to be remedied with start-up of a new caustic-chlorine unit at Alexandria sometime this year.

BDSA does not say whether the chlorine from this unit will be ample enough to supply the contemplated toxaphene facility also. However, there are plans for future production of emulsifiable concentrates of DDT and lindane.

On the overall outlook for US pesticides in Egypt, BDSA rates future prospects for increasing sales of technical materials as "excellent, especially if the irrigation projects undertaken by the government increase the acreage under cultivation."

However, the government has indicated that it anticipates doing more local formulating of pest control products. Plans are reported to be in progress to formulate all DDT-lindane, 25 percent DDT and 50 percent DDT—estimated at approximately 6,000 metric tons a year.

Obituaries

Wilbur K. Bennett, insurance manager and assistant treasurer of Warner-Lambert Pharmaceutical Company, Morristown, N. J., died May 27 in Morristown. He was fifty-seven years old.

Dudley Pelham Cary-Barnard, head of the pricing section of the sales division of Esso Standard Oil Company's international aviation department, died May 28 in New York. He was forty-eight years old.

Carl F. Vander Clute, general manager of the Marine department of Gulf Oil Corporation, died June 1 in Manhasset, N. Y. He was sixty years old.

William W. Fuchs, who retired last year as plant manager of Mallinckrodt Chemical Works in Jersey City, N. J., died May 30 in Leonia, N. J. He was sixty-five years old. Mr. Fuchs, a chemical engineer, had been with the firm forty-one years.

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Coating Materials

Nitrocellulose listings are one to two cents a pound higher as a result of the new schedules posted last week (June 1). The price increase on nitrocellulose is reported to be the first in three years and producers note that the new schedules reflect the higher costs of production and labor that have accumulated in the three-year period. Current demand is reported to be excellent.

With the exception boost on nitrocellulose, no other pricing activity is reported for the week. Generally, the coatings materials market settled into a quiet groove, as pigments, resins and lacquer materials were reported to be moving at routine levels.

Antimony oxide held to a split schedule. Supplies of the ore, and oxide are reported to be about normal. Demand for the oxide for fire-retardant use in paints and plastics is said to be about normal for this time of the year.

Cadmium pigments are reported to be firmly established at their new schedules, but demand is not expected to break above the routine levels that has set the tone for the pigments in the last few months.

Argentine casein added another quarter cent a pound during the week as the demand for casein continued to firm. Listings for Polish were also higher but shipments are not expected until July. French has been absent from the market for the past three weeks. Supplies of casein are reported to be on the tight side and this is felt to be the reason for the heady jump in prices that pushed casein up about 4 cents a pound in the last month.

The phthalate esters are reported to be moving in good volumes for the week. Listings are reported to be on the firm side. The outlook for the coming summer is said to be uncertain. Some trade estimates hint that the esters might run into some price resistance on the basis of declining demand and improved supplies.

Price Trends

Advanced

Nitrocellulose, 1c. to 2c. per lb.

Reduced

None.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 3, 1960
104.71	104.69	104.55	103.14

For Current Prices See Page 9

Synthetic Resins

The following preliminary figures show production in pounds for March, 1961, with the previous month supplied for comparison, as reported by the Tariff Commission:

Production

	February	March
Phenolic and other tar acid resins:		
Molding resins	15,270,962	17,050,511
Laminating resins	5,413,017	5,802,654
Protective coating resins, modified, unmodified except by rosin	1,341,449	1,793,585
Urea and melamine resins:		
Protective coating resins, straight modified	2,452,985	2,366,796
Styrene resins:		
Protective coating resins, straight modified	5,273,707	6,536,211
Vinyl resins:		
Total all types	81,148,835	93,058,790
Alkyd resins for protective coatings:		
Phthalic anhydride types, unmodified	15,964,594	18,981,654
Modified with tar acids, rosin and or other material except styrene	5,447,256	6,021,121
Polybasic acid types except phthalic:		
Unmodified	603,821	626,043
Modified with tar acids, rosin and or other material except styrene	450,327	535,175
Rosin modification for protective coatings:		
Rosin, rosin esters, unmodified (ester gums, esterified with glycerol)	520,160	678,693
Esterified with other alochols, pentaerytritol, glycols, etc	534,559	486,824
Modifications with phenolic and other tar acid resins	1,745,737	1,403,647
Modifications with maleic and fumaric acids	2,140,642	1,948,622
All other modifications	3,859,640	4,297,184
Coumarone-indene and petroleum polymer resins	15,299,184	17,295,221
Miscellaneous plastics and resin materials	20,720,180	23,073,584

Prime Pigments

Antimony Oxide—Oxide use for fire-retardant paints and plastics is reported to be about average for this time of the year. Supplies of the oxide and ore are adequate sources say. Shipments are reported to be arriving on schedule.

Carbon Black—Total production of carbon black in 1960 increased 4 percent to 2,045 million pounds, according to the Bureau of Mines. Output in the major producing states of Texas and Louisiana increased 5 percent and 6 percent respectively, while a decline of 2 percent occurred in the combined production of all other states.

Production of furnace black increased 7 percent and channel black output declines 9 percent from the 1959 level.

One new plant began production in Texas in 1960, bringing the total number of producing plants in the US to 42 at year's end. Operating capacity totaled 6,433,100 pounds a day, up 672,800 pounds daily from a year earlier.

Domestic sales of carbon black declined 7 percent in 1960. This reduction was due principally to the 7 percent decline in sales to the rubber companies which account for 95 percent of domestic consumption.

Total value at plants of carbon black production was $151 million in 1960, with an average value of 7.34 cents a pound, compared to 7.01 cents in 1959.

In 1960, 151,198 million cubic feet of natural gas was consumed to produce 292,422 thousand pounds of carbon black, a yield of 1.93 pounds per thousand cubic feet. Furnace black plants consumed 46,430 million cubic feet of natural gas as feed, producing 345,862 thousand pounds of carbon black, a yield of 7.45 pounds per thousand cubic feet.

The total consumption of natural gas was 197,628 million cubic feet. In addition 313,020 thousand gallons of hydrocarbon liquids were consumed to produce 1,415,443 thousand pounds of furnace black.

Lacquer Materials

Nitrocellulose—Listings are up, one to two cents a pound. As of June 1, the new schedule calls for: 39½ cents for ester soluble nitrocellulose at 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., car lots; 41½c. a pound for 18-25 cps., c.l., 44½ to 47½c. a pound for spirit soluble nitrocellulose in car lot quantities, on the basis of 30-35 cps., ¼ and ½ seconds.

Demand from furniture coating operations is reported to be at good levels. Nitrocellulose sources note that the demand for this lacquer material almost always follows the trend for the nation's economy as a whole. On that basis, the market is improving; outlook promising, supplies adequate.

Plasticizers—Market continues along unchanged, sources say. Sales last month were on the firm side but the outlook for the coming months does not indicate that that level will be maintained during the next quarter. Possibility of some strong price resistance on the part of consumers may weaken listings for the esters, some in the trade believe.

Miscellaneous

Casein world trade, which reached a record level in 1959, showed further rises in 1960, according to the British Economic Committee. In 1960, supplies from New Zealand and Poland were reduced, but expansions in the Argentine and France helped offest the deficit, the committee reports.

The increase in trade was reflected in heavier imports into the United Kingdom, West Germany and Japan, but US imports were two percent below 1959, with the Argentine providing 52 percent of the total.

In the last half of 1960, production of casein in New Zealand was 24 percent higher than in same periof 1959. Australian casein production was also higher, with an increase of 19 percent reported.

Exports in 1960 were as follows: New Zealand, 27,006 tons (previous year 29,180); Australia (12 months to end of June) 7,968 tons; (8,793) Canada, 836 tons (405); South Africa, 922, (1,032); Argentina, 33,832 (33,088); France, 11,208 (5,432); Denmark, 116 (123); Norway, 1,912 (1,806) and Poland Jan. to Nov. 7,236 (previous year 8,087).

Pine Gum—Gum rosin production during the 1960 season totaled 370,150 drums,

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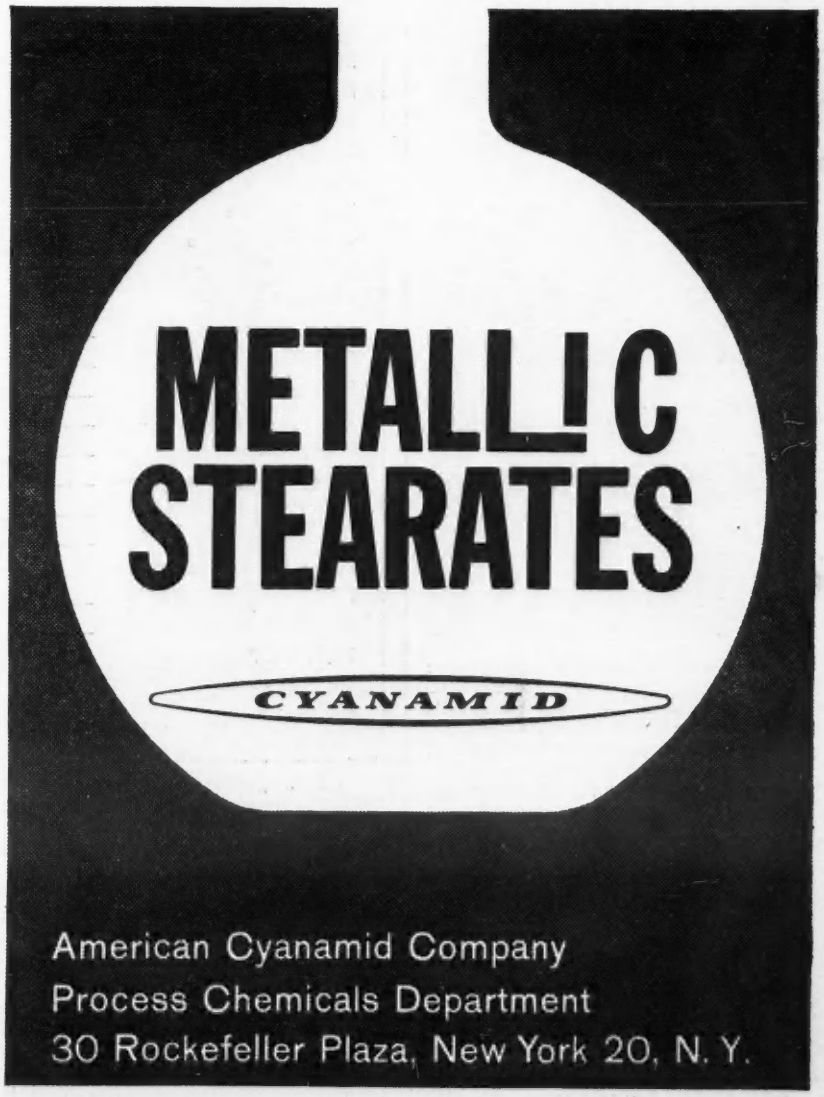

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Coating Materials

up 11 percent from the previous season. Production during April and May, 1960 was less than production during the same months a year earlier, reports the US Department of Agriculture.

While the output in June was sharply higher than for the same month in 1959, output in July dropped back to the previous year's level. From August through November, however, production was considerably higher than for the same months a year earlier.

Stauffer Electron Process Licensed to Nat'l Research

Stauffer Chemical Company, New York, has licensed National Research Corporation, Cambridge, Mass., to operate electron beam melting and casting furnaces under a Stauffer patent covering these processes.

Electron beam melting and casting has recently been commercialized after seven years of development. Five Stauffer furnaces are reported sold to date; three twenty-five kilowatt units to Wah Chang Corporation, a 300 kilowatt unit to Haynes Stellite Company, a Division of Union Carbide Corporation and a 50 kilowatt research unit to National Aeronautics & Space Administration.

Polyethylene Price Scramble

—Continued from page 3

ductions by other suppliers of similar resins."

What Phillips does not say is whether or not it will be competitive on specialty grades of polyethylene.

The consequences of such actions as those of Hercules, Phillips and Grace were depicted graphically weeks before they happened—by two men from Union Carbide Corporation.

Speaking before a New York meeting of the Commercial Chemical Development Association last March, Charles M. Blair told the group that the risks of introducing new plastics were becoming greater and greater, specifically citing tremendous capacity growth for high-density polyethylene, in the face of lack of ready markets and falling prices (OPD, 3/20/61).

Then, before the New York meeting of the Chemical Market Research Association in May, J. B. Knowles, sales manager of Union Carbide Plastics Company, was even more critical (OPD, 5/22/61):

"Selective price reductions to gain sales in a specific market have the inherent disadvantage of possibly setting off a general reduction across all markets.

"Thus, rather than one company benefitting, that company and many others will suffer."

Another criticism by Mr. Knowles, regarding price cutting as a sales weapon:

"Rarely is it the quick business-getter that it is often thought to be."

Fertilizer Price Skirmish

—Continued from page 3

August through September, 1961, and $132 a ton from October, 1961, to May 15, 1962. Current f.o.b. price is $132 a ton.

Solid ammonium nitrate prices remain the same, but with a normal seasonal discount prevailing from August through September. Urea will be discounted for the first time; with a price of $87.25 from August through September, and $91.25 from October through December.

(For an analysis of Spencer's move, see page 41.)

Swiss Chemical Exports Up 9 Percent in First Quarter

Exports of the Swiss chemical industry in the first quarter of this year showed significant gains over 1960. Government statistics disclose that total chemical and drug exports rose to $94.2 million, a gain of over 9 percent on the first quarter of 1960.

The total figure includes general exports worth $44.6 million, a gain of 6.5 percent on 1960; drugs, $20.7 million for an increase of 12.5 percent, and synthetic organic dyestuffs, $25.7 million, a gain of 10 percent.

NH_3: Squeeze by Coops

—Continued from page 5

fact; and you are looking at a fellow who is being swallowed."

Testifying before the house ways and means committee, Mr. Gallup said that at their present rate of growth, cooperatives would have in excess of two-thirds of Nebraska's anhydrous ammonia business by 1965.

"Although this doesn't seem possible," he said, "ammonia tonnage from 1956 through 1959 in Nebraska increased almost 250 percent, but the independent-owned distributor's average tonnage actually decreased 22 percent."

Pointing up the competitive inequity of the existing tax laws, Mr. Gallup noted that a multi-million-dollar nitrogen plant is now being built by a cooperative near his own headquarters.

"The money to build this plant," he told congress, "came primarily from untaxed earnings."

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Oils, Fats and Waxes

Outside of a light consuming demand for oils and fats for prompt needs, the market was a dull affair last week. Soybean oil was firmer with stronger soybean futures. Cottonseed oil was also higher. The market was more or less nominal due to limited supplies. Peanut oil advanced fractionally because of the scarcity of oil as the government has completed arrangements to export about 160 tankcars of oil shortly thereby reducing sharply supplies for domestic use. Crude coconut oil was weak and sold ⅛ cent lower. Copra was slightly lower.

Interest in tallow and greases was at low ebb. Prices were easier off ⅛ cent and reflected the slow demand for domestic and export delivery.

Trend of tung oil continued downwards, the market declining another ½ cent per pound. Trading was inactive. The government turned down bids of 1 cent per pound less than sales transacted the previous week. There was little doing in other industrial oils, consumers continued to absorb a good volume against former orders.

Oilmeals turned weaker because demand lagged and freer offers were available from $1 to $2 per ton lower. Soybean meal declined $1 per ton, linseed meal was down $1.50, while peanut meal dropped $2 because of increased production and limited demand.

Price Trends

Advanced

Cocoa butter, 1c. per lb.
Cottonseed oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Peanut oil, crude, 5/8c. per lb.
Refd., 5/8c. per lb.
Soybean oil, crude, ¼c. per lb.
Refd., ¼c. per lb.

Reduced

Coconut oil, crude, ⅛c. per lb.
Copra, $2.50 per ton.
Greases, ⅛c. per lb.
Lard, cash, ⅛c. per lb.
Linseed meal, $1 per ton.
Peanut meal, $2 to $3 per ton.
Soybean meal, $1.50 per ton.
Tallow, inedible, ⅛c. per lb.
Tung oil, ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	June 3, 1960
111.13	112.70	113.51	112.40

For Current Prices See Page 9

Vegetable Oils

Castor—Steady tone prevailed at unchanged prices. No. 1 Brazilian oil was maintained at 17¾c. per pound, tankcars, New York, prompt delivery. Domestic grades were unchanged and steady.

Production of Indian castor seed has been officially estimated at 100,000 metric tons for 1960-61, down 7.5 percent from the previous year and the lowest since 1957-58. The decline was attributed to smaller acreage and unfavorable weather during the growing season.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	.....	700.000
Previous week	.....	2.862.000
Corresponding week, 1960	.....	1.467.000
Total this year	.....	35.430.000
Corresponding week, 1960	1.934.700	39.204.000

Coconut — Buying interest lagged. Crude was lower at 11⅜c. per pound, tankcars, f.o.b. Pacific coast for prompt shipment. The New York market was slow. Tankcars ranged from 12⅞c. to 13c., f.o.b. New York, as to seller.

Corn—Crude remained steady with sellers holding at 17½c. per pound, tankcars, f.o.b. mills, prompt delivery. Refined oil was quoted at 21.23 per pound, tankcars, New York delivery.

Cottonseed—Futures were firmer and advanced fractionally, with higher soybeans market on the New York Produce Exchange last week. Trading was moderate and mixed with trade interests and professionals on both sides of the market. Cash oils were stronger and up ⅛c. to ¼c. per pound. Refined salad oil was raised to 17⅝c. per pound, tankcars, New York basis, prompt delivery.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, June 2, follow.

	Sales	High	Low	Close
		Cents per Pound		
July	498	15.51	15.11	15.42S
Sept.	53	14.84	14.47	14.65@14.75
Oct.	8	14.14	13.91	14.10@14.12
Dec.	69	13.98	13.73	13.92@13.95
March	36	14.02	13.80	13.94@14.00
May	22	13.92	13.82	13.94@13.99

Total sales and switches, 686 contracts.

Crude cottonseed oil was scarce and advanced ¼c. Trading was light. Tankcars were raised to 13¾c. per pound in the Valley; 13¾c. to 13⅞c., southeast and 13⅝c., Waco.

Linseed—Good improvement was noted for delivery against contracts. New business was quiet. Raw oil was steady at 13.1c. per pound, tankcars, Minneapolis, June-August; 13.3c, September forward and 14.22c, f.o.b. New York.

Oiticica—Buying interest was confined to prompt needs. Trading was spotty, while deliveries against contracts were in good request. Tankcars ranged from 14c. to 14¼c. per pound, New York, prompt delivery, as to seller. Drums ranged from 15½c. to 16c., spot, as to quantity.

Olive—Replacement remained firm at unchanged prices. Spanish oil maintained at $53 per 100 kilos, drums, f.o.b. ports and Tunisian at $57, same basis and New York, for prompt shipment. Reports from both areas stated that blossoms have been damaged by inclement weather and estimates placed the new crop at 25 percent below last season. Oil on spot was quiet and quoted at $2.35 to $2.40 per gallon, drums exwarehouse, depending upon quantity and quality.

Peanut—The government has completed arrangements to export about 160 tankcars of peanut oil immediately. Peanuts to produce this oil are now being processed and little oil will be available for domestic needs. This has stiffened the market and prices are fractionally higher.

Crude was sold at 15⅝c. per pound, tankcars, f.o.b. mills, prompt delivery. Refined oil was lifted to 18¾c. tankcars New York basis.

Soybean—This market was firmer with soybeans futures, closing ¼c. higher. Consuming demand was reported slow. Israel bought 1,100 tons for late August shipment. Crude oil was raised to 12⅜c. per pound, tankcars, f.o.b. Decatur, unrestricted for June shipment. Refined salad was quoted at 14⅞c., tankcars, New York, prompt delivery.

Tung—With buying interest at low ebb, the market continued weak and dropped ½c. per pound. Tankcars ranged from 24½c. to 24¾c. per pound, tankcars, New York, prompt delivery depending upon seller. Drums were lower at 26c. to 26½c. per pound, spot, as to quantity. Domestic oil was nominal around 25c., tankcars, f.o.b. mills.

The government rejected all bids for 600,000 pounds of tung oil offered last week. Best bid received was 24.01c. for 450,000 pounds, which was rejected. Another 600,000 pounds will be offered on Tuesday.

Miscellaneous

Cocoa Butter—Prices closed firmer, ranging from 55c. to 60c. per pound, spot, according to quantity.

Copra—Market was quiet and easy. Prompt shipment was lower at $155 per ton, c.i.f. Pacific coast.

Flaxseed—Dwindling offerings and slightly better demand forced bids on cash flaxseed up 3c. a bushel to $3.15, spot and to-arrive basis Minneapolis. Trading was near a halt, only one car in the spot market, while to-arrive bookings totaled less than 10,000 bushels, the lowest of many weeks.

Fats and Greases

Greases—This market was easier. Demand was restricted to actual needs. Quotations declined ⅛c. Choice white was quoted at 8⅛c. to 8¼c. per pound, tankcars, delivered. Yellow ranged from 7⅛c. to 7¼c. per pound, tankcars, as to acid.

Lard—Market was dull and featureless. Cash lard was lower at 10½c. per pound, drums, Chicago.

Tallow—Buying interest lagged for both domestic and export delivery. Market was

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Oils, Fats and Waxes

weak, off ⅛c. Bleachable fancy was quoted at 7⅝c. per pound, tankcars, delivered; prime 7⅜c.; guaranteed fancy, 7⅞c. and No. 1, 7⅛c. to 7¼c., same basis. Edible tallow was inactive and nominal at 9¾c., same basis. Export business was slow. Guaranteed fancy was nominal at 8⅛c., bulk, f.o.b. steamer and drums, 1c. higher.

Cake and Meal

Cottonseed Meal—Trading was spotty. Market held steady due to small stocks. Meal 41 percent was quoted at $61.50 to $62 per ton, sacked f.o.b. Mississippi Valley area and $65 Alabama and $70 Georgia area.

Linseed Meal—Softness prevailed in this market, prices down $1 to $2 a ton. Demand was spotty and confined to small lots for nearby needs. Withdrawals, too, were irregular, some mixers asking for quick deliveries while others requested delays. Extracted meal, 34 percent protein, in carlots, f.o.b. Minneapolis was nominal at $52.50 for balance of June, Nearby old process meal, 32 percent was $1 down at $58.50 for first-half June. Last-half June was unchanged at $60.50; July-August, $61; and September-December, $62.50.

Peanut Meal—Recent purchases of peanuts will produce about 6,000 tons of meal in the southeast. Production has been moved up to now, but there is some doubt that the increased crush will be absorbed quickly. Old process, 45 percent was $2 lower at $65 per ton, sacked and solvent, $63.50 f.o.b. Alabama and Georgia.

Soybean Meal—Prices in this market followed a narrow path, averaging slightly lower. Market failed to reflect pronounced advances in soybeans futures. Formula feed business was improved but manufacturers held bookings to nearby needs. Demand for meal was comparatively better in the Northwest than other areas. Meal, 44 percent protein, was lower at $68 a ton, unrestricted, bulk, Decatur, prompt delivery.

Waxes, Vegetable

Consuming demand in this market continued spotty, chiefly for nearby and prompt delivery. Carnauba grades, however, moved in good volume against former orders. No. 3 Ceara crude ranged from 58c. to 60c. per pound, spot, according to quantity and Parnahyba from 60c. to 62c., same basis. No. 1 Ceara yellow was steady at 82c. to 84c., per pound, spot, as to quantity, with Parnahyba held at 3c. higher.

Candelilla was unchanged and steady. Crude was quoted at 57c. to 58c. per pound, spot and refined, 62c. to 63c. according to quantity.

Crude ouricury was scarce and nominal at 52c. per pound, prompt delivery, while refined pure was available from 54c. to 56c., per pound, as to quantity.

Refined grades of beeswax were in moderate demand, chiefly for prompt needs. Prices were steady and unchanged, reflecting the firmness of crude replacements.

DuPont and GM

—Continued from page 3

means committee to give early consideration to his bill and make such changes in it as might be considered necessary to perfect it.

He expressed confidence that an overwhelming majority in congress would agree that the legislation is necessary "in order to grant relief to innocent stockholders who would otherwise be penalized as a result of the Supreme Court decision."

Tennessee Copper's Capacity

—Continued from page 3

unit was already on stream early in December, and it's not known how soon plans for the added capacity were on the drawing boards.

Liquid sulfur dioxide has been produced by Tennessee Copper since 1949. Shipments are by railway tankcars, tanktrucks, one-ton drums and 150-pound cylinders.

Material is moved mainly to southeastern states, but the plant reportedly has customers as far away as Canada, Mexico, Puerto Rico, and some in the western states.

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78"x18' Bubblecap 14 tray, 50#PSI.
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4500 gal. 6'x25' dish/cone heads, 25 PSI.
4000 gal. 8'x12' dished heads, coiled.
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500 gal. 4'x5' plain and agitated.
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300, 250, 150 & 100 gal.

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Sweco 48" Separator 3 SS Screens.
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Above with condensers, piping and pumps.
2—12,000 gal. NICKEL Clad Tanks.
5—8,500 gal. NICKEL Clad Tanks, some agitated.
1—1,000 gal. NICKEL Clad Tank.
2—Oliver 5'3" x 4' NICKEL Clad Rotary Vacuum Salt Type Filters.
3—Dorr 80' dia. Thickeners with agitator and drive.
4—Dorr 40' dia. Thickeners with agitator and drive.
3—Vogt 387 sq. ft. Rotary Pressure Filters.
2—Chicago Pneumatic 26" x 14" Vacuum Pumps with 150 HP motors.
4—Feinc 8' x 12' Rotary Vacuum Steel Filters, string discharge.
1—5½' x 4½' x 50' Rotary Dryer.
1—5½' x 4½' x 60' Rotary Dryer.
1—Buflovak 32" x 90" Double Drum Dryer.
1—Sperry 30" C.I. Filter Press, 27 chambers.
2—Pfaudler 300 gal. Glass Lined Jacketed Agitated Reactors.
5—NICKEL Centrifugal Pumps, 2", 3".

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Consisting of:

1—Raymond #73612 Super High Side 6-Roll Mill, complete, 40 ton per hour.
4—Fuller Lehigh Mills, 48" and 57" dia., M.D.
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1—Bucket Elevator, 75' high.
3—Fuller Kinyon Pumps.
2—Stainless Steel Gas Scrubbers, 6' x 12', 7' x 14' with fans.
Scales, Bins, Piping, etc.

Partial Listing — Send for Complete Details

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2—Sharples C-20 and C-27 Super-D-Hydrator, 316 S.S.
1—Bird 18"x28", Solid Bowl, Continuous, 304 S.S.
2—Bird 24" x 38" Solid Bowl Continuous 304 SS.
1—Bird 40" x 60" solid bowl continuous, 316 SS, UNUSED.
3—Sharples PY14, PN14 Super-D-Canters 316 S.S.
2—Sharples #16, 304 S.S., 3 HP motor.

REACTORS — EVAPS — CONDS — TANKS

1—Pfaudler 125 gal. 304 SS jacketed agitated Reactor, 150# int., 125# jacket.
3—Pfaudler 200 gal. glass lined jacketed Kettles.
2—Pfaudler 850 and 650 gal. Steel jacketed agitated Reactors.
1—650 gal. 304 S.S. Reactor with 100 sq. ft. Bayonet Heater.
1—550 sq. ft. Buflovak monel single effect Evaporator.
1—500 gal. S.S. Mixing Tank with nickel coils.
1—2,000 gal. horizontal 304 S.S. tank 5' x 12'.
1—2,500 gal. vertical 304 SS Tank, 8' x 7'.
2—2700 gal. 316 SS vertical agitated Tanks with coils.
1—4200 gal. 316 SS verticals Tank, 8' x 12'.
1—5500 gal. 316 SS clad pressure Tanks, 250 psi.
6—7500, 6000 and 2000 gal. Rubber Lined Tanks.
1—10,000 gal. rubber lined Tank, 10' x 17'6".
1—12,000 gal. horiz. steel Pressure Tank, 7'6"x36', 200 psi.
4—Stainless Heat Exchangers; 536, 370, 315, 250 sq. ft.
1—24" dia. x 35', 304 S.S. Bubble Cap Column.

FILTERS

1—#5 Sweetland Filter 304 S.S. 120 sq. ft.
1—Oliver 6' dia. Horizontal Filter, 316 S.S.
1—Oliver 4' dia. monel, horizontal Filter.
1—Oliver 5' x 6' Steel Rotary Vacuum Precoat Filter.
1—U.S. 200 sq. ft. 304 S.S. Auto-Jet Filter.
1—Hercules 400 sq. ft. 304 SS pressure Filter.
1—Oliver 5'3"x8' Steel Rotary Vacuum, vaportite housing.
1—Feinc 3' x 1' 316 SS Rotary vacuum Filter.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.

DRYERS

1—Buflovak Vacuum Shelf with 17—60" x 80" shelves.
2—Buflovak 42"x120", atmospheric double drum Dryers, complete.
1—Buflovak 32" x 90" Atmos. Twin Drum Dryer.
2—Devine 4'x9', single drum, atmospheric.
1—Buflovak 3'x10' Rotary Vacuum Dryer.
1—Stokes 4' x 20', 304 SS, Rotary Vacuum Dryer.
6—Louisville Rotary Steam Tube 5'x25', 6'x30', 6'x50'.
2—Louisville 8'x50' Stainless Steel lined Rotary Dryers.
9—Rotary Dryers 34"x30', 4'x40', 6'x50', 6'x60', 7'x80', 8'x87'.
1—Louisville 4-1/2' x 25' Inconel Rotary Dryer.
2—Link Belt, 7'5"x25', 6'4"x24", S.S. Louvre Dryers.
1—Stokes Model 38-A Tray Dryer with 16—36" x 36" SS shelves.
2—Atmos. Tray Dryers, 16 shelves, 40"x24".
2—Wyssmont Dryers, 304 SS, 6'2" and 9'6" dia.

MIXERS

1—Abbe 110 gal. 304 SS Jacketed Agitated Vacuum Dispersal Mixer.
2—Day Imperial 150 gal. jktd. double arm.
2—Baker Perkins 150 and 100 gal. jacketed double arm sigma blades.
1—Baker Perkins 50 gal. jacketed, double arm.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
2—Steel jacketed Powder Mixers, 225 and 350 cu. ft.
1—Patterson 6' dia. Conical Blender 15 HP.
1—3' dia. Simpson Intensive Mixer.
1—2' dia. Simpson Intensive Mixer, 304 SS.
1—45" dia. Lancaster Mixer, 7-1/2 HP motor.
1—Patterson Kelly 150 cu. ft. Twin Shell Blender.
1—Patterson 80 cu. ft. conical Blender, 304 SS.

MISCELLANEOUS

3—Kinney Vacuum Pumps, 1000 cfm, 10 micron, 15 HP.
3—Mikro Pulverizers, 1 SH, 1S1 and Bantam.
2—Hardinge 5' x 22" steel lined conical Ball Mills.
3—Mikro Pulverizers, 1SH, 1S1 and Bantam.
3—Abbe 2½' x 3' porcelain lined Pebble Mill XP motor.
1—Raymond 10" vert Mill, 10 HP.
1—No. 1 Ball & Jewell Rotary Cutter.
1—#18 Cumberland Rotary Cutter.
3—Swenson Walker Continuous Crystallizers, 24" x 30' sections.
2—#842 Rotex Sifters 60" x 84" double deck.
1—#24 Rotex Sifter, 20" x 64", Quadruple deck.

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1—1800 gal. Glascote blue glass-lined reactor, jacketed, ASME 50 psi or vac. int., 90 psi jkt.
1—1800 gal. T316 SS jacketed reactor, 5 HP Agit.
3—1350 gal. T347 SS jkt. kettles, Agit.
1—750 gal. Pfaudler blue G/L jkt. reactor.
1—750 gal. Graver T304 SS jkt. fermenting kettle., shell jacket, ASME 30 psi, 10 HP Agit.
1—600 gal. Bartlett & Snow Stainless crystallizing kettle.
6—465 gal. Downingtown T304L SS reactors, 150 psi, internal, 165 psi jkt.
1—300 gal. Pfaudler blue G/L jkt. reactor, Agit., ASME.
1—300 gal. Glascote blue G/L jkt. reactor, Agit., ASME.
1—225 gal. Stainless jkt. reactor, 200 psi jkt., vac. int., Agit.
1—175 gal. Stainless jkt. reactor, 100 psi jkt., Agit.

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1—3300 gal., T304 SS, 6' x 14'6", hemis. heads, coils.
1—3000 gal., T304 SS, 6' x 14', dished, coils.
2—2700 gal., T304 SS, 7'6" x 7'6", turbine Agit., coils.
2—2600 gal., T316 SS, 7' x 8', dished, coils.
5—2100 gal., T304 SS, 8' x 5'6", Agit., coils.
60—1350 gal., T347 SS, 4' x 14', 3/16" shell, ¼" dished heads, ASME 60 psi, 38 sq. ft. coils.
3—850 gal., T304 SS, 4' x 9', dished.
200—Stainless Steel tanks, all sizes, from 10 to 10,000 gal., T304, 316, 347, etc.

DRYERS

1—Buflovak 32" x 72" Twin-Drum Dryer, Chrome-Plated, Stainless Conveyors, Hoods, etc. Late Model!
5—Buflovak 42" x 120" Drum Dryers, ASME 160#.
1—American 42" x 120" dbl. Drum Dryer, ASME, stainless.
1—Buflovak 42" x 90" dbl. Drum Dryer.
1—American 36" x 84" Dbl. Drum Dryer, ASME, Vacuum.
1—Buflovak 5' x 12' Single Drum Dryer, Vacuum.
1—Fischer 36" x 40" Single Drum Dryer.
1—Buflovak 32" x 52" Dbl. Drum Dryer, ASME 100# WP.
1—Buflovak 110 sq. ft. Vacuum Shelf Dryer.
5—Stokes 195 sq. ft. Vacuum Shelf Dryers, #138J-16.
2—Davenport 8' x 60' Rotary Dryers, 7/16" Welded, Burners, Fans, etc.
1—Louisville 4'6" x 25' Rot. Steam-Tube Dryer, Welded.
1—Hardinge 4' x 30' Rot. Steam-Tube Dryer.
1—Bartlett 3' x 15' Rotary Dryer, Everdur Shell.
1—Nerco-Niro Portable Stainless Spray Dryer.

FILTERS — CENTRIFUGALS

3—Sweetland #12 Pressure-Leaf Filters, (72) St. St. Leaves.
5—Shriver 48" Cast Iron Filter Presses, 1250 sq. ft.
6—Valley 36" Aluminum Filter Presses, 1000 sq. ft.
1—Niagara #510-28 T316SS Pressure Filter.
1—Oliver 5'3" x 8' Precoat Rot. Vacuum Filter—Unused.
2—Oliver 5'3" Precoat T316 SS Rot. Vacuum Filters.
10—Davenport Dewatering Presses; #1A, 2A, 3A.
25—Sharples #AS-16V Super Centrifugals, Inconel, Sludge Disch.
3—Sharples #C-20, C-27 Super-D-Hydrators, T316SS.
2—Sharples #16-P cent., T304SS, Pressuretite.
3—Bird 24" x 24", Monel Slotted-Bowl.
1—Bird 24" x 38", Steel, Cylindrical Bowl.
2—Bird 24" x 38", T304SS Conical Bowl, 25 HP.
1—Tolhurst 48" Susp. Cent., T304SS.
5—A.T.&M. 40" Susp. Cent., T304SS Solid, 40/5 HP.
2—A.T.&M. 32" Susp. Cent., T304SS Solid, 30 HP.
1—Fletcher 30" Junior, T304SS Extractor, Perf.
1—A.T.&M. 12" Susp. Cent., T304SS, Perf.

MIXERS — MILLS

50—Baker Perkins #17, 200 gal. Sigma Jktd. Mixers.
1—Baker Perkins #16-UUEM, 150 gal. Dispersion Mixer, 150 HP XP Motor, 125# Jacketed, Vaulted Cover.
1—Baker Perkins #15-UUMM, 100 gal. Dispersion Mixer, 100 HP, ASME Jacket, Cored Blades, Compression Cover, Motorized Tilt.
1—Baker Perkins #15, 100 gal. Disp. Mixer, T347SS, Jkt.
1—J. H. Day #6 Cinc., 100 gal., Sigma Blades, Stainless.
2—J. H. Day #5 Cinc., 75 gal. Sigma Blades.
1—Gemco 60 cu. ft. T304SS Conical Blender.
13—Abbe 6' x 8' Pebble Mills, Stone Lined, 30 HP.
1—#2TH Mikro Pulverizer, 10 HP.
2—Hardinge 7' x 36" Conical Pebble Mills.
1—Allis-Chalmers 5' x 5' Contin. Ball Mill, 75 HP.
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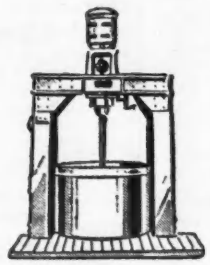

48" Stainless Steel Bird Suspended Centrifuge Perf. Basket, Plow Discharge.

FIRST COME — FIRST SERVED

SPOTLIGHT SPECIALS

Lancaster Type "PC" Lab. Precision Mixer; Motorized
Szegvari Stainless Lab. Attrition Mill Type SU
Kent 3 Roll Lab. Mill 4"x8" with Motor & Starter

PLASTIC and RUBBER EQUIPMENT

Unused F-B 14" x 30" Two Roll Mills
6 Southwark Presses, 36" x 36", 14" Ram
HPM Self Cont. Presses, 7 and 25 Ton
VULCANIZERS: 6'x16', 41"x54", 2'x4', others
Hartig 4½" and 6" Electrically Htd. Extruders; Vented compl. with Drive
NRM 2½" Oil Heated Extruder with Varispeed Drive, Cumberland Pelletizer
Welding Engrs. 2" Twin S/S Screws; Oil Htd.
Royle 2" Electr. Htd. with Crosshead
NRM 1½" Jktd. with Crosshead; Vari-Drive
Baker Perkins 150 Gal. Disp. Mixer, 150 HP
J H Day Mogul Mixer 150 Gal. V/Cov. 75 HP
Baker Perkins 5 Gal Disp. Mixer, 30 HP

MILLS—PULVERIZERS

2 Stainless Steel Micronizers 30".
Abbe, Ball & Jewell Rotary Cutters; in a wide range of sizes, capacities.
Ball Mills and Pebble Mills by Abbe, Paterson, International, some Jacketed; up to 8' x 8'.
Mikro Pulverizers up to No. 4's.
Fitzpatrick Comminutators; Models D, K and C; motorized.
American Ring Roll Crusher; 50 HP.
Mikro S/S Atomizers; Nos. 6 and 5.
Raymond Imp Mills; many sizes.
Williams Hammer Mills to 60 HP.

COLLOID MILLS

Premier Stainless Model U3; 6" with 15 HP Motor.
Eppenbach QV8 with 5 HP motor.
Chemicolloid Stainless Homogenizer 15 HP; 3525 RPM.
Cherry Burrell Stainless Sanitary Homogenizer Size 1500; 25 HP.
Flowmaster Kombinators Model 200.

MIXERS ALL TYPES

Baker Perkins Jktd. 5 gal. UNE-7, Dbl. Arm Mixer with pressure cover; 30 HP.
Readco Jktd. 15 gal. Dbl. Arm Sigma Blade Mixer.
Baker-Perkins Stainless Steel Lab Mixer; Sigma Arms; 6½" x 9½" x 11½".
Baker Perkins Jktd. Mixers, 50 gal., 150 gal., 200 and 300 gal.

NOW IN STOCK for IMMEDIATE DELIVERY. ALL SIZES FALCON Ribbon Blenders in Steel or Stainless.

CENTRIFUGES

Stainless Centrifugals from 30" to 60"; A.T.&M. Tolhurst, Fletcher, etc.
2 Sharples Stainless Steel Model PN14 Super-D-Canters.
4311 S 1 Sharples C 27 Super-D-Hydrator in Type 316 Stainless with 40 HP motor.
5147 S 13-14 Two Bird Continuous Screen Type Horizontal Centrifuges; Monel & S.S.; 24" x 24".
2 Bird Rubber Covered, 48" with Plows; Fume Tight; 40 HP.

REACTORS—PRESSURE VESSELS

2 Stainless 400 gal. Reactors Jktd. Agtd. by Patterson and Struthers Wells.
6 Dorr-Oliver Stainless Steel Thickeners or Reaction Vessels; 550 gal. 5' x 5'.
Stainless Reactor, 2000 gal. Fully Jktd. Agitated.
Lancaster Stainless Lined Rotary Reactor or Digester; 50" x 17'4"; Jacketed; good for 300 PSI Internal.
Pfaudler Gl. Lined Reactors; all sizes from 50 to 1000 gal.
Mojonnier Stainless Vac. Pans; 3'x10' and 6' x 12'; others.

OLIVER PRECOAT FILTERS

3" x 2" Monel. 5'3" x 8' Stainless.
(2) 5'3" x 3" Steel or Rubber.
Feinc S/S Rot. Vac. Filter 3' x 1'.
Oliver Cont. Rot. Vacuum Filters. Panel Type; 8' x 8' and 8' x 10'.

FILTERS—FILTER PRESSES

4 Pressure Filters 30" x 56" Type 316 Stainless; 100 sq. ft.
Sparkler Steel Filter Model 33 S 17.
S/S Nutsche Type Filter; 6' x 2'.
Bowser Filter with Pump; 2000 GPH.

SPECIAL OFFERING DIRECT FROM LOCATION
CONTINUOUS FINE GRINDING EQUIPMENT
Being Removed as Operations Terminate

2—Allis Chalmers 7' x 22' (2 Compartment) Compeb Ball Mills with Meehanite Liners, driven by a magnetic-coupled 400 HP Motor.
1—Allis Chalmers 9½ x 810 Preliminator or Continuous Ball Mill; Meehanite Liners, driven by a magnetic-coupled 400 HP Motor.
3—Allis Chalmers 7' x 22' Continuous Ball Tube Mills, with Meehanite Liners, each driven by a magnetic-coupled 400 HP Motor, now operating in closed circuit with
3—Raymond 14 Ft. Double Whizzer Mechanical Air Separators, New in 1950, each driven by 75 HP Motor. May be purchased separately. SEND FOR PRICES AND DETAILS.

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F M C

EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—Niagara type 316 SS horiz. filter, Model 136H-245-3.

1—Pfaudler Model XL 1000 gal. glass lined jacketed reactor.

4—Patterson Kelley SS twin shell blenders, 4 qt. and 2 cu. ft.

1—125 gal. SS jacketed autoclave with impeller type agitator and drive, 125 psi jacket, 75 psi internal.

1—Banbury #1 mixer with 30 HP motor.

4—Pfaudler Series P, 5, 20 and 30 gal. glass lined jacketed reactors complete with agitators and drives.

2—Pfaudler Series R 5000 gal. glass lined jacketed reactors, NEW.

1—Pfaudler 750 gal. glass lined reactor, jacketed.

2—Pfaudler Series EM 300 gal. glass lined jacketed reactors.

3—Glascote 500 gal. glass lined vacuum receivers.

2—International SS horiz. jacketed double ribbon blenders, 40 cu. ft., complete with motors.

2—Process Equipment 10,000 gal. SS vertical tanks, NEW.

1—10,000 gal. horizontal rubber lined storage tank.

2—Stokes SS jacketed rotary vacuum dryers, 3'x15' and 2'x6'.

1—AT&M 26" type 316 SS suspended type centrifuge, complete.

5—Tolhurst 40" and 30" rubber covered centrifuges.

1—Sharples type 316 SS Super-D-Canter, PN-14, complete.

1—Sharples type 316 SS centrifuge, Model D-2.

1—Sharples C-20 Super-D-Hydrator, monel.

1—Oliver SS rotary vacuum filter, 3' x 2'.

1—AT&M SS 40" link suspended centrifuge with perforate basket and explosion proof motor.

1—Sperry 36" x 36" heresite covered filter press, 40 chambers.

1—Sturtevant #7 SS dustite rotary batch blenders, NEW.

1—Gemco type 316 SS jacketed conical rotary vacuum blender, 92 cu. ft.

2—Louisville SS rotary dryers, 8' x 50'.

1—Cleaver Brooks 500 HP package steam generator, 125#.

1—Cleaver Brooks 150 HP package steam generator, 150 psi.

1—Superior 300 HP package steam generator, 125 psi.

2—Mikro #3TH SS pulverizers, complete.

3—Pfaudler glass lined thimble type condensers, 9 and 14 sq. ft.

1—300 gal. Hastelloy "B" jacketed pressure reactor.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

2—OLIVER PRESS PRECOAT FILTERS 5'3"—Type 316 S.S.
4—RIBBON BLENDERS, 2500 gal., 1200 gal.
2—AUTOCLAVES S.S., 50 gal. 2000 lb., 3½ gal., 2000 lb.
1—DRUM DRYER, Proctor & Schwartz.
4—COLLOID MILLS, 5 HP EX PR., 15 HP, 40 HP.

Machinecraft Corporation
800 Wilson Avenue, Newark 5, New Jersey
Mitchell 2-7634

EQUIPONOMICS

BIRD Continuous Centrifuge 18" x 28" 316 S.S. (1952) 15 H.P. Washing

COLUMN S.S. 4' D x 65' high, 55 plates.
TANKS S.S. 304, 2500 gal. 7' x 9' new.
KNEADER MASTER—Paterson 2½ gal.
COLLOID MILL—Premier UB5 S.S. 5 H.P.
CENTRIFUGE—ATM Susp. 48" 316 S.S., 50 HP.
ROLLER MILLS—Ross 14" x 32" Hi Speed Ross 4½" x 10".
CENTRIFUGE—Tolhurst 20", 40" Rubber Lined.
PEBBLE MILL—Abbe—50 gal.
TABLET PRESSES—DS3, DDS2, Stokes.

PROCESS PLANTS SERVICE, INC.
287 Central Ave., Clark, N.J. Tel. FUltes 1-1169-4

BEST BUY

NEW STAINLESS EVAPORATOR

Long tube 751-1" OD 12 ga. tubes 15' long. Evaporation rate 17,000# water per hour at 225° F. Entire unit constructed of type 309 and 304 stainless steel.

Immediately Available From Stock

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DAY HY-R SPEED MILL 20 HP XP
HERSEY 5' x 26'
ROTARY STAINLESS DRYER

CENTRIFUGALS—12" 30" 40" & 48". Amer. Tool 18" Stainless.
CENTRIFUGES—Sharples #5 & 6 S.S.
DRYERS—Hersey 5' x 26' Rotary Stainless
Buffalo 32" x 90" Double Drum Dryer
Buffalo Vac. Drum Dryer 24" x 28".
Despatch Ovens Elec. Heated.
3—Devine & Stokes Vac. Shelf Dryers.
FILLERS—Powder & Liquid. Also Labelers.
FILTERS—#2 Sweetland Filter.
Oliver Rot. Vac. Filter 3' x 1'.
Hercules Leaf Filter 36" dia.
Ertel 6" & 10" Disc type.
FILTER PRESSES—6" to 36" Iron & Wood.
KETTLES—Stainless Jack. 30 to 500 gals.
Dopp 350 gal. Cast Iron Jack. Vacuum.
Devine Impreg. Units 30" & 36" dia.
Steel Alum & Copper 5 to 2,000 gals.
MILLS—Raymond #00 Pulverizer 30 HP complete. Also #0000.
Mikro Pulverizer #4, 2S1, 2TH, 1SH.
Hammer Mills & Pulverizers 3 to 30 HP.
Williams #3 & #2XX Hammer Mills.
Taylor-Stiles 7½ HP Cutter.
Rotary Cutters 1 HP & up.
Sprt-Wald Stainless Spike Crusher.
Pebble, Jar & Ball Mills. Lab to 6' x 8' 3 Roll, 9" x 24", 12" x 30", 16" x 40".
Lehmann 4 Roll W. C. 12" x 36" Steel.
MIXERS—Baker Perkins 100 gal. Jack. S. P. 15 HP—Masticator Mixer.
Day Imperial 75 & 150 gal.
Change Can Mixers 6, 15, 40, 80 gal.
Day Jumbo 700 gal. horiz. Mixer.
Sprout-Waldron 10,000# horiz. Spiral Mixer.
Blystone 3000# horiz. spiral Mixer.
Day 1000# horiz. Dry ribbon Mixer.
Dry Spiral Mixers 50 to 10,000#.
Lancaster 6' dia. 25 HP & #1, 3 HP.
PUMPS—Vacuum 10 to 500 CFM.
Gould 75 HP Centrifugal 250 PSI.
SIFTERS—Day, Robinson Ratex type.
SOAP MACHINERY—Toilet, Laundry, etc.
TABLET MACHINES—Colton 4½ T.
Stokes R single punch & RD1 rotary.
TANKS—Stainless, GL., Lined, Steel.
MISC. Boilers Gas & Oil. Conveyors.

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STerling 8-1944

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1—Groen 100 Gal. S.S. Kettle w/Ag.
2—Sparkler 14" & 8" Stainless Steel Filters.
8—Hercules 16" & 8" Square Stainless Steel Filters.
5—Shriver #1 & #6 Diaphragm Pumps.
1—Homo Mixer #1H—1 H.P. XP Motor.
2—Lightnin Agitators 7½ H.P. 1200 rpm.
1—Charlotte ND26—S.S. Colloid Mill XP Motor—600 gph.
2—Worthite S.S. Pumps 8" x 6"; 3" x 2".
1—Stainless Steel 30 Gal. Autoclave 1000 psi w Jacket & Agitator w/XP Motor.
2—Cyclotherm Package Boilers 18 & 30 H.P.—#2 Oil—Fully Automatic.
4—Stainless Vacuum Receivers 55 to 100 Gals. 350 psi.
5—Day Horizontal Spiral Blenders 400 & 2000# Cap.
2—Steel Ball Mills 4' x 5'.
1—N. J. Model 84MX Pony Labeler.
1—Patterson S.S. Gyro Sifter 30" x 48".
4—Rotex Screens 30" x 96" to 60" x 84".
1—Kent High Speed Roll Mill 13" x 32".
1—Pfaudler 800 Gal. G.L. Jack. Tank w/Ag.
2—Day 40 Gallon Pony Mixers, M.D.

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WHEN YOU NEED IT!!

3—Mikro pulverizers models 3-TH, 2-TH, Bantam.
3—Sparkler model 33-S-17 rubber lined filters.
2—Devine #28 vacuum shelf dryers.
1—40" rubber lined suspended centrifuge, perforated basket.
1—75 gallon nickel clad jacketed and agitated reactor.
1—3000 gallon horizontal heresite lined tank.
2—Rotex 40" x 84" double deck sifters.
1—Patterson kneadmaster 25 gallons capacity, 30 HP.
2—Copper coating pans 38", 30", motor driven.
1—Oliver stainless steel 3'x2' rotary vacuum filters.
4—Stokes tablet presses models R, T, RD-3, DS-3.
1—Baker-Perkins 2¼ gallon heavy duty jacketed double arm mixer, pressure, 3 HP.

Write or Phone Your Inquiries

CP chemical & process machinery corp.
52 Ninth St. Brooklyn 15, N.Y. HYacinth 9-7200

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ALUMINUM CONDENSER, 350 sq. ft.
DISTILLATION UNIT S.S. Type 316, 1200 gal. per hr.
LAPP FITTINGS, VALVES.
Continuous Stripping COLUMN 2x13.
ALUMINUM EVAPORATOR, Calandria type, 1300 sq. ft.
BLENDER—Double Cone, 70 cu. ft.
Ribbon Blenders, Hydraulic Pumps.

MACHINECRAFT CORP.
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Mitchell 2-7634

ECH SPECIALS

Readco SS J'ktd. 6 qt. Lab Mixer, vac. cover
Day 75 gal. sigma arm Mixer, 7½ HP motor
Oliver 316 SS Filter 6' dia., 25 sq. ft. cap.
Pfaudler 1500 gal. Glass Tank, closed top
Blaw Knox SS 100 gal. Autocl, agtd. 1000 psi
Cavagnaro sig. arm 200 gal. SS mixer, 75 hp
Simpson 24" SS Lab. Mix Muller, 1½ H.P.
Buflovac Lab. 6" x 7" Double Drum Dryer
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FILTER—NEW—Stainless, Niagara 48" vertical 512 sq. ft. w/stainless slurry tank.

GRANULATOR — NEW — Stainless Stokes oscillating w/motor.

VOTATOR—NEW—Stainless, lab. model 4 speed.

TABLET PRESSES—Stokes R, B2, DS 3, RD 4 all w/varidrives.

FEEDER/SCREENER — S/S Syntron 24" x72" tot. encl. w/rectifier.

MIXERS — Double arm, unused S/S 3 qt. Read—11 gal. Bramley—25 gal. Fishtail (10 HP)—110 gal. Day Imperial.

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1—J. H. Day 5-roll high speed Mill.
6—Blackburn-Smith Pressure Leaf Filters, jktd.
2—Rotary double tube Crystallizers.
1—Copper Evaporator, steam jacketed, 250 gal.
4—U. S. Hoffman Pressure Leaf Filters, jkted.
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4—Werner & Pfleiderer 200 gal. jktd. sigma blade Shredders.
2—Ball & Jewell #2 Cutters.
4—Link-Belt Vibrating Screens 4' x 8',
1—Jeffrey Vibrating Conveyor.
1—30" Sperry Filter, closed del., 3-aye, 39-plates, 40-frames.
1—42" Sperry Filter 40-plates, 41-frames, hyd. closing, open del.
1—International Ball Mill, porcelain lined, 48" x 60", 15 H.P. Unibrake Motor.
1—Abbe Pebble Mill 5' x 22'.
1—Sparkler Filter 33-S-28, with Scavenger Plate, steam jacketed, like new.
1—2 qt. Sigma Blade S.S. Mixer.
1—Patterson Steam Jkt. Ball Mill 42" x 36".
1—430 S.S. Tank 3000 gal. vert. ⅜ plate.
2—Vacuum Pumps, Gardner-Denver, 5" bore, 4" stroke, with 7½ H.P. motors.
1—#316 S.S. Reactor 265 gal. jkt.
Large stock of new and used H.P. Boilers, Tanks, Pumps, Heat Exchangers, Freon Compressors, Stainless Steel & Brass Valves.

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3—Lawrence type 316 vert 3" Submerged Pumps. 250 GPM @100'.

2—Patterson Steel Ball Mills, 3x4' and 4'6"x4'6". Comp.

2—Tolhurst 48" dia. susp Stain. perf. bask Centrifuges. Mtrs.

1—Roots Connersville 22"x54" type RCDH, 11 900 CFM @28 oz.

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47 dms, Sandoz Inc, Havre
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ANNATTO SEED—25 bgs, Foreign Domestic Distributors, Callao
ANTIMONY—24 dms, J W Hampton Jr, Hull
ANTIMONY OXIDE—114 bgs, National Lead Co, Glasgow
ANTIMONY REGULUS—200 ingots, Indussa Corp, Antwerp
ARABIC GUM—578 bgs, Stein Hall & Co, Port Sudan
255 bgs, Marine Midland Trust Co, Port Sudan
250 bgs, Bank of N Y, Port Sudan
300 bgs, Irving Trust Co, Port Sudan
250 bgs, Chemical Bank, Port Sudan
250 bgs, P A Dunkel, Port Sudan
ARROWROOT—3,175 bgs, Morningstar Paisley Inc, St Vincents
ARSENIC—99 bbls, L J Buck, Skelleftehamn
ARSENIC TRIOXIDE—282 dms, American Firstoline Corp, Marseille
ASAFETIDA—100 cs, Rotterdam
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2,400 bgs, Keasby & Mattison, Lourenco Marques
200 bgs, N American Asbestos Corp, Capetown
BALATA RESIN—54 dms, Ranco Trading Corp, London
BALSAM—5 dms, Polarome Manufacturing Co, La Libertad
10 dms, Peter Andrea Corp, La Libertad
BARIUM SULFATE—30 dms, Havre
BASIL OIL—1 kg, Ungerer & Co, Marseille
BEESWAX—234 bgs, Machado & Co, Ciudad Trujillo
25 bdls, H H Pike & Co, Cristobal
70 blks, Lobito
BERGAMOT OIL—10 cs, J Manheimer, London
BOIS DE ROSE OIL—10 dms, International Flavors & Fragrances Inc, Iquitos
4 dms, Lautier Fils Inc, Iquitos
5 dms, Lo Curto & Funk, Belem
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CALAMUS OIL—15 cs, Denimex Development Co, Antwerp
CALCIUM CARBONATE—1,202 bgs, N H Weitzner, Antwerp
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360 bgs, J T Baker Chemical Co, London
500 bgs, Beecham Products, London
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1,200 bgs, Whittaker Clark & Daniels, Liverpool
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CANDELILLA WAX—313 bgs, Tampico
CANANGA OIL—4 dms, International Products Corp, London
CARAWAY SEED—100 bgs, Rotterdam
CARBAZOL—105 cks, Terra Chemicals Inc, Rotterdam
CARNAUBA WAX—211 bgs, Frank B Ross, Fortaleza
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145 bgs, M Argueso & Co, Fortaleza
167 bgs, Strahl & Pitsch, Fortaleza
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80 bgs, Cornelius Wax Refining Corp, Parnahyba
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63 bgs, Strahl & Pitsch, Parnahyba
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215 bgs, F H Paul & Stein Bros, Oslo
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83 bls, Rotterdam
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100 tons, Spencer Kellogg, Recife
CELERY SEED OIL—3 cs, Magnus Mabee & Reynard, Bombay
CETYL BROMIDE—5 dms, Heemsoth Kerner, Liverpool
CHESTNUT EXTRACT—250 bgs, Davidson Chemical Co, Bordeaux
CINNAMON QUILLS—200 bls, Max Van Pels, Colombo
25 bls, M J Golombeck, Colombo
CITRONELLAL—7 dms, International Flavors & Fragrances Inc, Yokohama
CLAY—600 bgs, L A Salomon & Bro, Bremen
CLOVE—200 bgs, East India Trading Co, Tamatave
800 bgs, George Lueders & Co, Tamatave
200 bgs, Mincing Trading Corp, Tamatave
200 bgs, National City Bank, Tamatave
100 bgs, Max Van Pels, Tamatave
100 bgs, R J Spitz, Tamatave
100 bgs, A G Dunn, Tamatave
200 bgs, M J Golombeck, Tamatave
50 bgs, Curacao Trading Co, Tamatave
100 bgs, K H Landes & Co, Tamatave
100 bgs, Kellys America Ltd, Tamatave
50 bgs, Knickerbocker Mills, Tamatave
750 bgs, Tamatave
CLOVE OIL—75 dms, Fritzsche Bros, Tamatave
14 dms, Magnus Mabee & Reynard, Tamatave
45 dms, George Uhe Co, Tamatave
18 dms, George Lueders & Co, Tamatave
5 dms, Ungerer & Co, Tamatave
COBALT CHLORIDE—10 dms, Philipp Bros Chemicals, Hamburg
COBALT OXIDE—100 cks, Antwerp
COCONUT OIL—67 tons, Fallek Products Co, Rotterdam
300 tons, American Trust Co, Cebu

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CREAM OF TARTAR—1,000 bgs, Leonhardt & Brush, London
CUMIN SEED—220 bgs, Louis Furth, Khorramshahr
200 bgs, Am-Iran Corp, Khorramshahr
1,550 bgs, Khorramshahr
CUTTLEFISH BONE—100 cs, Tripoli
CYANURIC CHLORIDE—1,000 dms, Geigy Chemical Corp, Bremen
DAMMAR GUM—70 bgs, O G Innes Corp, Singapore
256 bgs, S Winterbourne & Co, Singapore
28 bgs, Wm H Scheel, Singapore
25 bgs, O G Innes Corp, London
DEGRAS—49 dms, J Fries & Co, Liverpool
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53 dms, Robeco Chemicals Inc, Melbourne
DEXTRIN—330 bgs, Morningstar Paisley Inc, Rotterdam
420 bgs, Manufacturers Trust Co, Rotterdam
DIPHENYL OXIDE—13 cks, Terra Chemicals Inc, Rotterdam
DIPYRONE—2 dms, Bremen
DISODIUM MONOMETHYL ARSENATE—40 dms, F L Kraemer, Hamburg
EPHEDRINE HYDROCHLORIDE — 10 dms, Burroughs Wellcome & Co, London
ETHYLHEXANDIOL—31 dms, Henley & Co, Hamburg
FARINA STARCH—280 bgs, D C Andrews, London
FENNEL SEED—125 bgs, Louis Furth, Buenos Aires
86 bgs, Louis Furth, Bombay
FURFURAL—891 tons, E I Dupont de Nemours & Co, La Romana
GALL—3 cks, Wilson & Co, Timaru
GALLNUTS—556 bgs, Izmir
GELATIN—106 dms, D H Burdett, Liverpool
260 bgs, United Hat Fur Cutting Co, Leghorn
331 bgs, Transatlantic Animal By-Products Corp, Antwerp
50 cks, Havre
GERANIUM OIL—5 dms, J Manheimer, Tamatave
3 dms, Centflor Manufacturing Co, Tamatave
12 dms, Hollander Trading Corp, Tamatave
2 dms, F N S Corp, Tamatave
2 dms, A Chiris Co, Tamatave
1 dm, Fritzsche Bros, Tamatave
4 cks, A Verley & Co, Marseille
10 dms, Tamatave
GERMANIUM OXIDE—20 cs, Antwerp
GHATTI GUM—222 bgs, P A Dunkel, Bombay
GINGER—227 bgs, Wm E Martin & Sons, London
85 bgs, Ungerer & Co, London
100 bgs, H A Astlett & Co, London
GLUESTOCK—330 bgs, Karr Ellis, Liverpool
L-GLUTAMIC ACID MONOHYDROCHLORIDE—37 dms, Ajinomoto Co, Yokohama
GRAPHITE—250 bgs, C Pettinos, Colombo
610 bgs, Joseph Dixon Crucible Co, Tamatave
1,550 bgs, C Pettinos, Tamatave
500 bgs, Asbury Graphite Mills, Tamatave
770 bgs, Tamatave
GUAIACWOOD OIL—44 cs, Asuncion
GUAR GUM—200 bgs, T M Duche & Sons, Genoa
580 bgs, J L Quesada, Valencia
GYPSUM, CRUDE—20,523 tons, U S Gypsum Co, Hantsport
HEPTANOIC ACID—262 bbls, International Selling Corp, Marseille
IPECAC ROOT—10 bgs, J M Rodriguez Co, Cristobal
IRON BLUE—45 dms, Van Oppen & Co, Liverpool
IRON OXIDE—100 bgs, J Lee Smith, Hull
218 bgs, Hammill & Gillespie, Malaga
2,323 bgs, American Chemical & Pigment Co, Malaga
2,200 bgs, Malaga
JABORANDY LEAVES—38 bls, A W Fenton Co, Parnahyba
KARAYA GUM—143 bgs, Meer Corp, Bombay
124 bgs, Block Drug Co, Bombay
62 bgs, Colony Import & Export Corp, Bombay
122 bgs, P A Dunkel, Bombay
LACTIC ACID—50 dms, A Millner Co, Liverpool
LACTOSE—100 dms, Rotterdam
LAVANDIN OIL—5 bbls, Coutin Associates, Marseille
LEAD, WHITE—460 bgs, Rotterdam
LEMON OIL—10 dms, Ungerer & Co, Vera Cruz
1 dm, Citrus & Allied Essential Oils Co, Vera Cruz
LICORICE EXTRACT—1,237 cs, Wm E Martin & Sons, Izmir
LIME OIL—1 dm, Citrus & Allied Essential Oils Co, Puerto Plata
4 dms, Ungerer & Co, Tampico
LITHARGE—184 dms, Eagle Picher Co, Tampico
LITHOPONE—300 bgs, C J Osborn Co, Rotterdam
LIVERMEAL—560 bgs, Wessel Duval & Co, Lyttelton
560 bgs, Wessel Duval & Co, Timaru
LIVER POWDER, DESICCATED—3 dms, Cudahy Lab, Buenos Aires
30 dms, Van Gelder Fanto Corp, Buenos Aires
11 dms, London
LOCUST BEAN GUM—364 bgs, J L Quesada, Valencia
220 bgs, Stein Hall & Co, Portimao
50 bgs, Stein Hall & Co, Genoa
115 bgs, Chase Manhattan Bank, Rotterdam
200 bgs, Portimao
MAGNESITE—400 bgs, Smith Chemical & Color Co, Rotterdam
MAGNESIUM CARBONATE—45 cks, Chas L. Huisking & Co, Genoa
200 bgs, Rehein Co, Liverpool
MANGROVE EXTRACT—200 bgs, Saxe Cutch Corp, Singapore
MARJORAM—50 bgs, H H Pike & Co, Ciudad Trujillo
MENTHOL—10 cs, Fleischman Burd & Co, Keelung
50 cs, Schwabach & Co, Santos
8 dms, Cannes
MERCURIC OXIDE, RED—2 cs, E T Browne Drug Co, Southampton
MERCURY—40 flks, Lo Curto & Funk, Tampico
N-METHYLACETAMIDE—2 dms, Aceto Chemical Co, Liverpool
METHYL BROMIDE—12 dms, Kolker Chemical Corp, Beira
MOLASSES—14,219 tons, S Western Sugar & Molasses Co, Vera Cruz
MONOSODIUM GLUTAMATE—250 dms, Ajinomoto Co, Yokohama
MUSK, ARTIFICIAL—27 dms, Roure-Dupont Inc, Rotterdam
NAPHTHA—130,000 bbls, Humble Oil Co, Aruba
NAPHTHALENE—784 bgs, Koppers Co, Hull
840 bgs, J N Forker, Middlesbrough
1,171 bgs, Hudson Shipping Co, Trieste
1,429 bgs, Rotterdam
1,118 bgs, Antwerp
NIGER SEED—175 bgs, Massawa
NUTMEG—560 bgs, George Lueders & Co, Singapore
130 bgs, M J Golombeck, Singapore
14 bgs, J H Elton, Singapore
OITICICA OIL—150 tons, Murray Oil Products Co, Fortaleza
OLEORESIN PAPRIKA—16 cs, J Weinstein, Alicante
7 dms, Lo Curto & Funk, Alicante
OLIBANUM OIL—41 bgs, S B Penick & Co, Massawa
40 bgs, Massawa
OLIVE OIL—50 dms, J Victori, Barcelona
287 dms, Swiss Credit Bank, Malaga
49 dms, Chase Manhattan Bank, Malaga
75 dms, Hanover Bank, Malaga
100 dms, Swiss Credit Bank, Seville
61 dms, Bankers Trust Co, Seville
49 dms, Atlantic Bank of N Y, Seville
95 dms, J Ossola, Seville
238 dms, Uddo & Taormina, Seville
25 dms, J D Nicolaou, Sfax
OPIUM—100 chts, Calcutta
ORANGE OIL—13 cks, George Uhe Co, Marseille
ORANGE OIL, BITTER—1 dm, Citrus & Allied Essential Oils Co, Puerto Plata
OREGANO—510 bgs, Sokol & Co, Piraeus
PALMKERNEL OIL—300 tons, Matadi
PALM OIL—422 tons, Matadi
PAPRIKA—25 bgs, J Raphael, Hamburg
200 bgs, Gel Spice Co, Hamburg
100 bgs, Archibald & Kendall, Hamburg
300 bgs, R T French, Hamburg
500 bgs, A A Sayia, Alicante
343 bgs, J Weinstein, Alicante
125 bgs, Manufacturers Trust Co, Alicante
PATCHOULI OIL—34 dms, International Flavors & Fragrances Inc, Penang
5 dms, London
PECTIN—117 dms, T M Duche & Sons, Copenhagen
PEPPER, BLACK—140 bgs, Atlanta Textile Corp, Singapore
420 bgs, A G Dunn, Singapore
210 bgs, Kellys America Ltd, Singapore
280 bgs, Internatio Rotterdam, Singapore
400 bgs, Atlanta Textile Corp, Cochin
160 bgs, Ludwig Mueller, Cochin
160 bgs, George Uhe Co, Cochin
160 bgs, V A Cordovi, Cochin
320 bgs, C M Van Sillevoldt, Alleppey
240 bgs, Kellys America Ltd, Alleppey
160 bgs, Mutual Spice Co, Alleppey
80 bgs, A A Sayia, Alleppey
1,240 bgs, Alleppey
420 bgs, Singapore
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PEPPER, RED—296 bgs, M J Golombeck, Massawa
PEPPER, WHITE—200 bgs, C M Van Sillevoldt, Belem
100 bgs, K H Landes & Co, Belem
100 bgs, Kellys America Ltd, Belem
70 bgs, K H Landes & Co, Singapore
PENNYROYAL—24 bls, Leixoes
POLLACKLIVER OIL—50 dms, Mitsubishi Corp, Yokohama
POPPYSEED—200 bgs, American Almond Products Co, Gdynia
POTASH, CAUSTIC—540 dms, B T Chemco Inc, Gothenburg
POTASSIUM FERRICYANIDE—100 cs, Teaneck Chemical Co, Antwerp
POTASSIUM NITRATE—300 bgs, Tar Residuals Inc, Trieste
1,000 bgs, Trieste
PYRITES—220 cks, American Metal Climax, Leixoes
QUEBRACHO EXTRACT—559 bgs, Tanimex Corp, Buenos Aires
QUINIDINE SULFATE—20 dms, Lo Curto & Funk, Bremen
RAUWOLFIA SERPENTINA ROOT—24 bgs, S B Penick & Co, Hamburg
RESIN—10 dms, Baird Chemical Co, London
ROSEMARY LEAVES—200 bls, Leixoes
RUTILE SAND—892 bgs, Lo Curto & Funk, Brisbane
SAFFLOWER—15 bgs, F D Keller & Sons, Vera Cruz
SAGE LEAVES—266 bls, K H Werthon, Trieste
SAGE OIL—24 cs, Denimex Development Co, Antwerp
SANDALWOOD—100 bgs, National City Bank, Bombay
SANDALWOOD OIL—14 cs, International Flavors & Fragrances Inc, Cochin
19 cs, Lo Curto & Funk, Cochin
5 cs, J Berlage, Cochin
SEEDLAC—250 bgs, United Shellac Corp, Calcutta
SESAME OIL—50 dms, Welch Holme & Clark Co, Kobe
SESAME SEED—750 bgs, Levy & Levis Co, Corinto
SESAME SEED, HULLED—500 bgs, Archibald & Kendall, Corinto
400 bgs, A A Sayia, Corinto
100 bgs, H H Parker, Corinto
400 bgs, Levy & Levis Co, Corinto
300 bgs, Nieman Bros, Corinto
100 bgs, Hismoco American Co, Corinto
500 bgs, Louis Furth, Corinto
SHELLAC—60 bgs, F H Paul & Stein Bros, Bremen
50 bgs, Mantrose Corp, Bremen
100 bgs, Mantrose Corp, Calcutta
150 bgs, Calcutta
SODIUM ALGINATE—20 dms, E Mendell, Havre
23 dms, Bremen
SODIUM BICARBONATE—500 bgs, Chemical Manufacturing Co, Liverpool
SODIUM CYANIDE—100 dms, Ugine Industries, Havre
550 dms, Chemical Manufacturing Co, Liverpool
750 dms, American Cyanamid Co, Liverpool
SODIUM FERROCYANIDE—800 bgs, Filo Color & Chemical Corp, Liverpool
SODIUM GLYCEROPHOSFATE—2 dms, Karr Ellis, London
SODIUM PERBORATE TETRAHYDRATE — 1,680 bgs, Chemical Manufacturing Co, Liverpool
TALC—800 bgs, Whittaker Clark & Daniels, Bordeaux
6,015 bgs, Charles Mathieu, Genoa
TAPIOCA—500 bgs, Madagascar Agencies, Tamatave
TAPIOCA FLOUR—672 bgs, Manhattan Adhesives Corp, Penang
2,214 bgs, Tapioca Associates, Kohsichang
292 bgs, Geismar & Co, Kohsichang
784 bgs, Stein Hall & Co, Kohsichang
TARTARIC ACID—821 bgs, Leonhardt & Brush, Barcelona
P-TOLUYLENE DIAMINE SULFATE — 8 dms, Roux Lab, Dublin
TRAGACANTH GUM—12 cs, P A Dunkel, Khorramshahr
127 bgs, Am-Iran Corp, Khorramshahr
15 cs, Khorramshahr
TUNG OIL—500 tons, Buenos Aires
TURMERIC—56 bgs, L E Ransom Co, Madras
40 bgs, East India Trading Co, Alleppey
80 bgs, C M Van Sillevodlt, Alleppey
160 bgs, A G Dunn, Alleppey
160 bgs, A A Sayia, Alleppey
160 bgs, California Commodities Corp, Cochin
79 bgs, Kellys America Ltd, Cochin
160 bgs, S B Penick & Co, Alleppey
320 bgs, Alleppey
240 bgs, Cochin
ULTRAMARINE BLUE—522 bgs, Whittaker Clark & Daniels, Hull
UMBER, BURNT—40 bgs, T H Deutz, Larnaca
200 bgs, Smith Chemical & Color Co, Larnaca
300 bgs, Chase Manhattan Bank, Larnaca
UNDECYLENIC ACID—46 bbls, International Selling Corp, Marseille
UREA, SYNTHETIC—1,904 bgs, Chemical Manufacturing Co, Liverpool
VANILLA BEANS—118 cs, Zink & Trieste, Tamatave
22 cs, Madagascar Agencies, Tamatave
12 cs, Frank Tea & Spice Co, Tamatave
91 cs, J Manheimer, Tamatave
112 cs, Morningstar Paisley Inc, Tamatave
54 cs, Morningstar Paisley Inc, Vera Cruz
21 cs, F Huber, Tamatave
47 cs, George Uhe Co, Tamatave
23 cs, L A Champon & Co, Tamatave
25 cs, Greenwich Trading Co, Tamatave
24 cs, Tamatave
VANILLA POWDER—20 kgs, Zink & Trieste, Marseille
WATTLE EXTRACT—544 bgs, International Products Corp, Durban
654 bgs, Hammond & Carpenter, Durban

Los Angeles

CALCIUM CARBONATE—1,000 bgs, Synkoloid Co, Antwerp
CALCIUM NITRATE—5,000 bgs, Antwerp
CARAWAY SEED—150 bgs, R J Suitz, Rotterdam
CELERY SEED—97 bgs, Hismoco American Co, Bombay
COPRA—1,500 tons, Cargill Inc, Cagayande Oro
CORN STARCH—150 bgs, Geismar & Co, Amsterdam
CREOSOTE OIL—500 tons, Ataka & Co, Yokohama
GYPSUM, CRUDE—17,132 tons, Kaiser Gypsum Co, San Marcos
MOLASSES—5,375 tons, S Western Sugar & Molasses Co, Mazatlan
OLIVE OIL—100 dms, Leghorn Trading Co, Cadiz
OREGANO—200 bgs, H M Newhall & Co, Salina Cruz
POTASSIUM NITRATE—400 bgs, Bremen
SEEDLAC—200 bgs, East Asiatic Co, Bangkok
SESAME SEED—200 bgs, R J Spitz, San Juan del Sur
300 bgs, Nieman Bros, Corinto
400 bgs, B C Ireland, Corinto
SULFAMIC ACID—100 bgs, Hostachem Corp, Bremen
750 bgs, Yokohama
UREA—1,250 bgs, H J Baker & Bro, Antwerp

Philadelphia

ASBESTOS FIBER—2,160 bgs, Keasby Mattison, Lourenco Marques
BARIUM CHLORIDE—464 bgs, Antwerp
CALCIUM CARBONATE—480 bgs, Pluess Staufer, Antwerp
1,200 bgs, Antwerp
CALCIUM PHOSFATE, DIBASIC—800 bgs, Antwerp
GRAPHITE—450 bgs, Asbury Graphite Mills, Tamatave
GYPSUM, CRUDE—9,043 tons, U S Gypsum Co, Hantsport
MAGNESITE—200 bgs, Smith Chemical & Color Co, Rotterdam
907 tons, Split
MYRABOLANS—1,466 bgs, Vizagapatam
NAPHTHALENE—23,947 bgs, Marine Midland Trust Co, Gdynia
OLIVE OIL—30 dms, Seville
24 dms, Malaga
160 dms, Cartagena
PHOSFATE ROCK—3,150 tons, Curacao
QUEBRACHO EXTRACT—1,334 bgs, International Products Corp, Buenos Aires
500 bgs, Tanimex Corp, Buenos Aires
RUTILE SAND—864 bgs, Brisbane
SODIUM SILICOFLUORIDE—600 bgs, Riches Nelson, Rotterdam
SODIUM SULFATE—700 bgs, Antwerp
TARA POWDER—740 bgs, Callao
TURMERIC—160 bgs, A G Dunn, Alleppey
160 bgs, Alleppey
UREA—600 bgs, Rotterdam
VANILLA BEANS—109 cs, Camax Co, Vera Cruz
273 cs, Tamatave
WATTLE EXTRACT—33 tons, International Products Corp, Durban
1,155 bgs, International Products Corp, Durban
435 bgs, Elkan River Plate Corp, Durban
ZIRCON SAND—2,000 bgs, Frank Samuel & Co, Brisbane

San Francisco

ANISE SEED—100 bgs, E A Johnson, Salina Cruz
CASEIN—1,224 bgs, J R Spellacy, Sydney
500 bgs, International Casein Corp, Gdynia
CORN STARCH—150 bgs, Geismar & Co, Amsterdam
DILL SEED—80 bgs, H M Newhall & Co, Bombay
FISHMEAL—2,174 bgs, Balfour Guthrie, Chimbote
6,820 bgs, Marine & Animal By Products, Arica
13,044 bgs, Iquique
GINGER—120 bgs, Curacao
GRAPHITE—800 bgs, Pacific Graphite Co, Hongkong
GYPSUM, CRUDE—10,121 tons, Kaiser Gypsum Co, San Marcos
HYDRAZINE HYDRATE—50 dms, Bremen
LEMON PEEL—61 bls, H R Laist, Marseille
MOLASSES—1,900 tons, California Molasses Co, Victorias
807 tons, California Molasses Co, Manila
NUTMEG—210 bgs, Hismoco American Co, Singapore
OREGANO—200 bgs, H M Newhall & Co, Salina Cruz
PEPPER, BLACK—210 bgs, Hismoco American Co, Singapore
POPPYSEED—50 bgs, W L McClintock, Rotterdam
SODIUM NITRATE—515 tons, Morgan Guaranty Trust Co, Tocopilla
TALC—1,775 bgs, Charles Mathieu, Genoa

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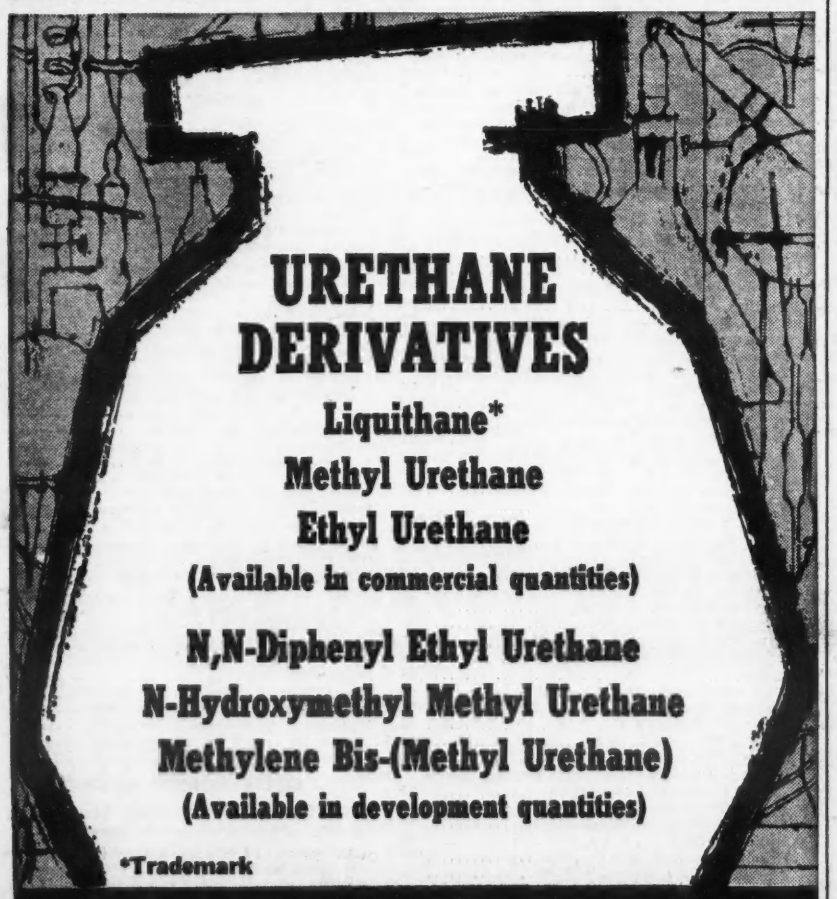

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